

acacngaaag gaaggetcaa attanggggt gtnncacatt tatcaggagg taagatctcc 120
 atagtctcct acccctcctg ggcctggcct tttactgtgg tatccancct ctgggaanac 180
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<210> 9180

<211> 348

<212> DNA

<213> Homo sapiens

<400> 9180

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 aanangcggg gtggggctgg ggggtgaaaag cacaaantaa ggcctacagg acgctctgca 180
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 gtcaccaagg cctataggga acaatgggga ggggcgggct tgggtgtgat cangaagact 300
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<210> 9181

<211> 532

<212> DNA

<213> Homo sapiens

<400> 9181

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cactgttgct cctgactggg gccaccatgg tgcccaggct tcaggcacag ggccctgcct 360
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 ganctgctcc ggcttccctgt tgtgtggtaa gggaacttca ntgtgctatg ctcttaaaaa 480
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<210> 9182

<211> 322

<212> DNA

<213> Homo sapiens

<400> 9182

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 tccaaagttc aggaccactg aaaccataat agaanaatct tgggagctaa tgtcaaagaa 180
 tcattttttg ctatgcttga ttttaagtcca aactttaatg tgattttaat ctattgcata 240
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 ggcccnacc cncnaatctc ct 322

<210> 9183

<211> 407

<212> DNA

<213> Homo sapiens

<400> 9183

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 atatataaat atgttgcaaa tcttggaac cttttaggtg tgatggctgc tcaggcaaac 180
 catggagcaa gattggaaat aataatggtc tgcatacatc ctcccatagg cagtgaacaa 240
 ggttggccac attgactcta ttatgactga gacagtggca aattttactt ggttccccan 300

aatcagtga aananatttt taaaacatat ccntaaaaaa aatatactgt ggggtatttg 360
aatccaaata ttcnattctt aatatgttat tatggtatta aaaanct 407

<210> 9184

<211> 511

<212> DNA

<213> Homo sapiens

<400> 9184

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agggattagg cttcaacata ttaattttgg ggaggacaca aacattcagt ccatagtaac 180
tttgatcttt ctctttcttg atttctgtag ttagaattcc tganagctgc cttgactcct 240
cctggaacaa tgtgggacat aaataaacia atagatggta actaaaaaat ctgactgctg 300
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<210> 9185

<211> 466

<212> DNA

<213> Homo sapiens

<400> 9185

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caaaaggaga gagttgcaca gttggcaaag gctcagatga ggaaataaac aaataaaaaat 180
gcttttcttc aatgtctggg acccactttg ctttctcaag aaaggccgaa aaccagtcaa 240

ctgcgtgaca ctttgtcttc tccttctatg cctttcgtgt cctattgctg aatggaaaaa 300
 cccgacagta tcttttccca gtgggccctt ggatttatgc tgcaacttaa ctcactaaga 360
 ttgtgtgttt cagtaccacg gtgattcctt actcttgtct tgatgctgta gacctgtatc 420
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<210> 9186

<211> 448

<212> DNA

<213> Homo sapiens

<400> 9186

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 ccatgcccag ctaatttttg tatttttagt aaanatggga tttcaccatg ttggccaggc 180
 tgctctcaaa ttccttacct caggtgatct gcctgcccag gcctcccgaa atgctgggggt 240
 tacagcgtga gccgctgtgc ccggcccagc cacttcttct tattggagtg tgagcactag 300
 gagcagggac ctttccatgg tgcttgctgt gttataacct gcaccagaa cttagtaagc 360
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 cttaaancgt tccccaacia gggaaatn 448

<210> 9187

<211> 346

<212> DNA

<213> Homo sapiens

<400> 9187

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 tccagaaaag tagtcagcaa gggcagaggc ccaggacag cagtgggaag agcagggcgc 180

cttaggtgtg gtgctccagc gcaccctggg ccagtgtgc caggaagaac tgccagccct 240
 tggccagtga cagtgggtgcc tcctgcagct cccgccacag gaatgggctg ccaangagcg 300
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<210> 9188

<211> 309

<212> DNA

<213> Homo sapiens

<400> 9188

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 aattatattg atttttagga ttaacagct gaaaaaaccc tttctgcttc cactggaggc 180
 aaaactgaac aaaatgttag ttaaatanaa agagcagcat ttctaanaaa tctgtgggtca 240
 gcattatana ccatctatgc tacaagggat ntenttaaat aggatttggt caattactgg 300
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<210> 9189

<211> 257

<212> DNA

<213> Homo sapiens

<400> 9189

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 ctataggcac gtaccaccac acccggtctaa ttgataaata attttataa acttaaaaac 180
 ccttctcctt gttaccgcaa atcacaaact ttaaangtcc ancaataaac nctgtccaaa 240
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<210> 9190

<211> 524

<212> DNA

<213> Homo sapiens

<400> 9190

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caaattcata ggccatctac ccaaattgat tttctcctat caactctagc tgcagagcaa 180
catggtgatt caaaataggt gcctggatag gaanaggcat accgtgaatc taaggactgt 240
nttgaatant aaggctaaca agantcaggc atctgcaggt gctgatgaac tanaaacagg 300
aagggaccga gttaacattt cagggtggcca aggctctcct tggaagctgt naaccaagac 360
tgaaggctna ttactctttt ctgtcctgca aatctgcttt gatatggaac aatacccatg 420
gatgcttaan tactanctac tatatccgct tttttttttt gtccccatt aaattgccta 480
agaactgaaa ttccccgaan aaaaanaaan ccccttttgg gttc 524
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<210> 9191

<211> 561

<212> DNA

<213> Homo sapiens

<400> 9191

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acacattaca caaaattaaa gacttgtgca tatatttgat ttcaacatta atgtcaaaaa 120
tacatagtat gattttacat aggatttgtg ctacattaga aactagana caaacatcac 180
ttgagtatta aggaaaacat taaatattaa ataactgana aaatgtgtna acactaatct 240
aactgggggt tttgctattg caacatgtcc aatgaagtgg tttcaacagt acaaaaagga 300
ttaggacatg agtttttcca gtctacatgg aatatatgga tttcatttca ggaatccttt 360
cataaaaact ggtccaggat aacagganaa aatccncnct cctgattgtt taatttggtg 420
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cctccattct atgctaattt ttacttgcca acttgggttc tgagtaatac ttnaatcacc 480
 nccccatca cctctnggtg aaaactgaag gttgttnggg atccctgtta aattgaattc 540
 tatgcncccc ctttcacccc c 561

<210> 9192

<211> 408

<212> DNA

<213> Homo sapiens

<400> 9192

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 tccaaaaggg aaaacttata gtcaagaaaa acctcacttg ttttttgac aaccaatttt 120
 cctgtttacc tatagctagg tgtatctgtg cacatcactt aattacttag gantanataa 180
 tgggttcatt tagtttcatt ctccatccc taacacttta tactcaagga actgatctct 240
 gccttttgcc gtttaaggag ggttttcta atatggtttc tgatgcaact actacgttgg 300
 atttatttga tcccttcgga attcaacccc cttttaana ntcaatgcag taaaanancc 360
 tgagtcttc tctataaaat ctcaaagca ctgaanaatg acatgagc 408

<210> 9193

<211> 559

<212> DNA

<213> Homo sapiens

<400> 9193

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 tgtttatatt taaacaaaca cttcaaaaat ttaataaaca tgtntaaagc actatactgt 180
 gccaggcatt gttagcaact gggaatatgg gaatgcatga aactagtcc tgcccttgan 240
 tgtctcatcg gttctttccc tgcccttca gtacgggtggg aattgcagct gctgancagg 300

gattctggaa agcattgcgt acctgagccc ccancatggc gggcctaaag cggcgggcaa 360
 nccaagtgtg gccanaaaaa catggtgagc aagaacatgg gctgtacanc ctgcaccgca 420
 tgtttganat cctgggcctc ntctgacaca caaaaatgtt cgcgtgcttc ctcccccttg 480
 ttgaaattcc tgnataacac aaacttgaac cctcccaaata gaacttnact ccttattggc 540
 cctgnacccc nnggcccct 559

<210> 9194

<211> 559

<212> DNA

<213> Homo sapiens

<400> 9194

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 tcaccatgtt ggccaggctg gtctcgaact cctgacctca tgattcacc acccagcct 240
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 aaaccaatth ttcagggtata acataagatt tctanccaaa ggaaaattht gttgtattaa 360
 ttccaacatt tgctgtgatt tgggtattatg tgggtatttct tttgtgctct aacaaaaatc 420
 atgctagatt tagatgccna taaatgccca atttgaattg aaaacatctt ttacctccca 480
 ataattatgc cntaaaattg aatgaacccc ncccataacc aaaatcccct tctttnnatt 540
 tttaattaat ttnaaatth 559

<210> 9195

<211> 227

<212> DNA

<213> Homo sapiens

<400> 9195

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 cagcttggcc atttcctgca catagatgcc tatactctcg ctgtcaaaaa gcacgaagta 120
 caccgttttg atggaagang acattgtana cacgaantaa ctggagatgg ccttcagaat 180
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<210> 9196

<211> 569

<212> DNA

<213> Homo sapiens

<400> 9196

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 tgagtttatac aggctatctc agccttatac atgttctctc antgtatgct tttcgccac 180
 ataatgaact acaaattttt gctcaaccct tttccacata natctgagtt ttcctnctat 240
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 gcattcaciaa ggtttctgtc ctgtgcaa at ccactgttat ctctgagggc tgcacatctg 360
 accactggct gtcccacaaa gactacgttc ctgtttgcga agangccgct aatgtttaat 420
 gatgtctgan gggccacaaa aagcacttgt gttatcccc cgtagcaaa atttttctcc 480
 tgcattgacat cactgggtgtg ttatganctg tgccnctctg ccaggaagan ttccccctg 540
 ggtgcctctg tttcctccct gtntttttc 569

<210> 9197

<211> 263

<212> DNA

<213> Homo sapiens

<400> 9197

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aatacagtat aaaaaagaac agcttaaata aacnggtatt cacatatcac aatagcaaag 120
 ttatgacana atgaactgaa aacacnaaca gttttgaaaa ttctcttttc agcctacttc 180
 caaataaaaa tagtcaggct ttttncctgt acatagtttg atgctttgtc tataccatat 240
 atantanaaa aataaattct tta 263

<210> 9198

<211> 443

<212> DNA

<213> Homo sapiens

<400> 9198

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 gacataaaaa agctgttttt ctcccactaa attgccatga ctttgtactt ataaagtcta 120
 ctaaattata ttcaaaaagt gtgtataact gtaccatttt cgttaaaata ttgtgtaaaa 180
 aaaagtttgg gggaatatat aacaaataat taactgtaga tccctctggg tgtaaanatt 240
 acaggaggct ttcactttga gcactctcaa atagtgtgaa atttgagatt tttaacaata 300
 gcattatgtg tgcagaaaaa attaaaatac ataaacgtta agaaacatga aaaaatgac 360
 agtcctaate atgcaattaa aactggcngg acctattttc ccataattaa tgnccnaaaa 420
 cggtncagtg aaaagttttc cnc 443

<210> 9199

<211> 367

<212> DNA

<213> Homo sapiens

<400> 9199

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 ttgccaatta aaagtatgac tgggacactg taaaatgtac tatttttaatt ggggtgtgcat 120
 gtcaggattt tctttanaaa tacactgggtc tgggtctaatt tatttaagca ggagcacttt 180

aaagtatccc accctacccc attccacccc cagtggacag aaaggaaatt gactgacttg 240
 aggggatgca gacatctggg ttattccaac anaccantgg ttaagaagan gggggtggta 300
 ncattatggc ctggggcagg cccccccacc ctgagcctct gaaagctgac tttatctgta 360
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<210> 9200

<211> 548

<212> DNA

<213> Homo sapiens

<400> 9200

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 tcaaagtcca agattgaaaa ctigcaatta aacactgagc aagccacatg ttttaagtaat 180
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<210> 9201

<211> 541

<212> DNA

<213> Homo sapiens

<400> 9201

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caagctccac ctcccagggt cacaccattc tectgcctca gcctcccagag tagctgggac 120
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 gggaaaatat ctaaaaattg gatatcgatg atacttctag accttgatta tgttatctct 480
 gantaatttc ccttcccagg atccanaaaa naaaatnaac ccccggnaac ctggtaattt 540
 a 541

<210> 9202

<211> 439

<212> DNA

<213> Homo sapiens

<400> 9202

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 taacaatttn ctactattaa aataatactg taatgaatat cacatgcaaa catcatacca 120
 cactcgtcca gttatttctt agggttctta acatggaaaa ngataaatat atatttaaaa 180
 tttaaataac tacagcttaa ccncccaaa ggattaaaca acttacattc tcaccaaggt 240
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 ttaacaatct gatanatgaa aaaatagttt aagtatacta aggcagtgtt ttccaaggtg 360
 ttttggtttt tgttttngaa ttggaatttt gctctgttgc caanctggaa tcantggcnc 420
 gggccccggt cantggcaa 439

<210> 9203

<211> 441

<212> DNA

<213> Homo sapiens

<400> 9203

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accagaatg acaccagcca cacttgtagc tggcananat aacctctttg accttcagca 180
attttaaaag ttcttcatcc taatttctga gtatcataaa aagtaaaaag tactttcatt 240
ttatttttcc tttgaaaatg tttttagtgg caaacaggac tacttgtttt ctttacttca 300
tttttataag catagtantt atatgtcaat ttacttaaaa ttaganaggg aaaccccana 360
nacctaagt ggcactgccc atccactgaa aggcccacat aaataggttc tcatgtttca 420
tgttatcccg tctaccannt a 441
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<210> 9204

<211> 379

<212> DNA

<213> Homo sapiens

<400> 9204

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acacagttta gggtatcact cttatnact cctgctccct gccctgcacc ctaaattctc 240
tgggactcac cgcagttttc ctgactctga tggaatgtgc tggantctat tacgaaaccn 300
gcttttccaa aagggtgctca acaaggccct aaaaattttc ttctggccaa aggtgggtca 360
aaccaaattn ctncnggct 379
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<210> 9205

<211> 527

<212> DNA

<213> Homo sapiens

<400> 9205

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cagacaaacc cataatcttt gtcagaaatg gaatttcacc tgcactcgc tgatttaacc  180
ttcacttctt ccctgaccca cacccanaac caggcaccct ccaaactgg cccatctccc  240
ctccagcccc tgcctccctg cccggcaaca ccccgggagc tccagnagt ctctggccgc  300
tccaagcgct ctgagggcac cagcctgtcc cactctggcc atttcaatgc cgctcggaca  360
nacctggtgg gttcataagc cggtgcatac cccaccctg cacgtgctct cccgggtcgg  420
cnccaatctg gtctgggaac cgcctcctcc ncctgaacct tccctgggtt tcccnccggt  480
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<210> 9206

<211> 219

<212> DNA

<213> Homo sapiens

<400> 9206

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gggctanaag tttgggcttt aatggcagct ggggtaaaag gaaacaaaaa cagtaattct   60
gaaanancac aagggaacaa ggcaccagc aancaccctg ggccattcc caggccagct  120
gaactgaaat gctgattctg tccanggggg ctgctgtatg tgtanactgg gtggcantct  180
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<210> 9207

<211> 539

<212> DNA

<213> Homo sapiens

<400> 9207

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 gcactttaca gaaaaagcat ctttctgacc ttgatcatga agttatgtgc ttcttgtcgt 180
 attctgggaa agttgtctag gaaatgacct attgagggga gaaatacatt tcctttgact 240
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 cctcnattat atgtatatat tggagatata atatacatat ttatatatat tccnagagag 420
 aaagaaaaag agagattttt tttaaggaat tggctcnngt tttcctgga acctggcagt 480
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<210> 9208

<211> 487

<212> DNA

<213> Homo sapiens

<400> 9208.

accgggatac tttttaatac atctagtcta aaacttacag ggaaggcatc ctagcacctt 60
 cttttattat tgtacagcag tgacagtgc gacagtgatg atggcatctc tctattttta 120
 tggaaacatc tccaggaaat cccaagctgc acagtggaga attacaggaa cagaaaaagt 180
 ggtgtgaagt ctgtcggctt cttccctggg tcaatgagga gctgaactga atcatactan 240
 aggcatgagt gtctgcgcta tttttaana nctctgggga agtgtggttg tcccacctta 300
 ggctcctaataaatacactca tttctatttg tgggatgggt aacaccatct tccatttggt 360
 ctttcctcca ctaatatatt atccttcaact gaagtcttat ttctacagtt taatcttttn 420
 ancccccaaa tttttttttt ttncncaa aaaccattct tggttcaggg ggcaaggtct 480
 gggncccc 487

<210> 9209

<211> 444

<212> DNA

<213> Homo sapiens

<400> 9209

```

ggtaccagtt ttatttataa ttaaccacat acaaactact tttctacaaa ataatggta 60
acatctattc ctttaattcac agaaatatca caaaacaaaa atccttccca cgatatatta 120
ctatttagtc taagctttta ttcaaagggt gagaatgacg aattcaagaa tttctttcat 180
acataaattg ctttccttag ttctgcagat gggtaatctg tttgagataa gcactgtcat 240
gtttcaacct tagagaacaa aaagctatca acaagatagt ggtaaagaaa atgctagcca 300
aaaaataaca ctattgagaa ataggtgcgt attaagtgc atacttaca catctctgat 360
gtcaaatgac caaaatttag ccttagggca ctaaagcaca tttgcccttt tgaagcacat 420
actantatgg ccncttttta tttc 444

```

<210> 9210

<211> 538

<212> DNA

<213> Homo sapiens

<400> 9210

```

aagtcagant tgcctttatt tttagattct taaatattct agaatgangt aaaacgaacc 60
tgccagtaca aagtgaaaat tctacatggg gcattcttgg ngcttcatgc atgattattt 120
caatgaacct cttcctgggc actcttaana tanatctgag ttttgactc nccagtctan 180
ggctttggcg aactcaatg acataatatt ctgggaaaaa gcagtagcat ttctgacttt 240
tcatattcag ctggagggtg tattgtctcg ggctcctgtg cagtcgancg ccacggctgc 300
tcatcggtatg atccangatg ggtccttggc aattttcggg ttctcgggtc cgaagatggc 360
cangccgtgt gtgctcttcc cagtgccgaa gtatctatcn ctacaggga anaacttgtc 420
tggtgaaaa caaaaaactc tctctttggg ccncttcctc ccctnccaaa aaggcgtnca 480
aaaaattgtt ctttcctttt ttttaaagga accaaangan ctcttccggt taaaaaaaa 538

```

<210> 9211

<211> 426

<212> DNA

<213> Homo sapiens

<400> 9211

```
ccntttctca catattttga tggtagaaat aatgaaacaa actagtgcctt aaaagacgac   60
caatcttgag gagngtgatg tcngtgtnaa aaactaaatg agagtccaga aaggcccagt  120
cataaaacaa gcctttcttt atttcaatga gatagttttc tccttaggaa ngacaagana  180
tgggtgctag aaacagtttg ctttcaagtt atcaaaacaa ccacgacagt tgagaatgtc  240
tggaagagac catttgtttt ttagattgtc aactgctaca caaacagaat tttctggagt  300
tgtgacaggc atcnattaaa aaacaaacn naaaaaacn aaaaaacca aaaaacaaac  360
acctggcctt ttgaagaatc tatcaagttt taaaaatttc agcatacttg cagtgagccn  420
anatcc                                         426
```

<210> 9212

<211> 322

<212> DNA

<213> Homo sapiens

<400> 9212

```
gggagaatcc aaactcactt taatatgaga taagccaagc aatgaagag aaataatggt   60
tgtaaccagt ccctggtaat acaagcagtg gcaaaccttg ttgatcaatt ccaacatata  120
aacaggaaaa cataaatgtc nggagctaca aacttttagta ttcagaggcg gacctatgta  180
taatggagcc aataagacca aattgacctt tcaggtgttt ccttgctatc tcccaccccc  240
gtcctcatt tacctcaaga cacaatggtt tttgcaaagc attattaaat tgcctantaa  300
gtcctaaaat tattncnttt tt                                         322
```

<210> 9213

<211> 312

<212> DNA

<213> Homo sapiens

<400> 9213

```

aatgcacat gaatgcaaat tcctgtttta tatatttggg tagaaagata gaacatattg   60
aaaataacag ataagtattt acaaattctc acctattttt tcccctttac attcaatggc  120
taagtgtggg gattcatctg taaatgctcc caaaaatggc acaaaattgt gctataatgg  180
aaccaaacia ccacagtgtt tgtttggggg tttgattttt ctccnataaa aggtacttat  240
ttanacagta aaatttttta gtgacaataa aaatttataa cataaagaac ttttgtnttn  300
ccncattggg cc                                     312
    
```

<210> 9214

<211> 435

<212> DNA

<213> Homo sapiens

<400> 9214

```

gatctattca tttatttttac tttctaagga attgatagaa atataaatgt acatataacct   60
aaaaagtggc tatectacat atgacagccc agaatttact aactccatag gttttctgga  120
tatttcaagc acacattaaa acaattacag agaggacata catttatgat ttatgcaaat  180
taaggcacat caattacaat ctatTTTTTT aagttagtca gtttaaaaat cttcacttac  240
aaaaattcaa aatatgtcca agtcaactt tttagtaaga atgttaattt gttgggggtg  300
ggccatttcc tttttncct taaaggtcna acatgaaaac aatgaaggaa atntnggtct  360
ttgtaaaaca cataaatacc tgtgatgttt tgaatcattt gnccttaaa aatattgctt  420
aacaanttaa anccc                                     435
    
```

<210> 9215

<211> 562

<212> DNA

<213> Homo sapiens

<400> 9215

```
gttgtggtta ttgaggtgtt attcatatta tcagattgag aatgttaaac tccaagaaaa 60
gagctggtaa cctattcctc aattcagctg aagaagtcac taatataggg aaaataatct 120
ttttttgcca ccagctacaa agttagcata tatggttaaa aaaaaaaaag aaaagaaatt 180
ccnaggaaga aaaaataact aaaaataact ctaggcaaaa agacacaata atttcaacct 240
gtcttatatt ggcagcttat tccatggagt tctgagatgg tacacttttc ataacgacta 300
atatctctct gaananttgg aaaaataaac actgatgact gctgacagan ccaganttaa 360
actgtgttct gtgggtccgc atcaggcngc aatccagtgc aaccttctgc ccgtaatcag 420
atgccatcca cagtccanca tattagggcc tcccgcttaa acaaaggact ggaccagggt 480
cccaaaaaac ntccttggga atatttgttt ttatcccggg ntccttcaat tcctgaaaat 540
cccccttccc tggnnaaagg an 562
```

<210> 9216

<211> 463

<212> DNA

<213> Homo sapiens

<400> 9216

```
catattgggg aganttttat taacttaaatt tgacattcct aattttgtct gtaagtcctt 60
ggnatatatg cctttatttg aagcaaacct acaggtgttt cttaatatga cagaatcatg 120
aagacttgca gttaatcagt gtttccnaat gattaaaaca atgttcaaat aattacaaag 180
ttacttcntc naaatactta gaaaaatatt ctgaggagtgt ttgaaagct ctgtttataa 240
atagtgattg atacatttat catgtntttg gtgctgaana taaacacttt ttacataaaa 300
cattgtttta atatactgct ctactaatga ggctagttaa tagatatact gtattttaac 360
actaaggaat aaagctttat ctctntattt atcttattta taggactctt atcnatgaan 420
aactttgttt cccacaataa taaactggca aattgcaant tnc 463
```

<210> 9217

<211> 421

<212> DNA

<213> Homo sapiens

<400> 9217

```

ggangcaggg tctctccgta gccagcctg gactacagt gcaagatcac ggntcactgc   60
agtctcgaat tcttanaatc aggtgatcct cctgcctcag cctcccgagc agctgggact  120
accagggcat accaccacgc ctggctaatt tttgtacttt ttgtaaanac ggggtttcat  180
catgttgctc aggctgggtct cgaactcctt agctcaagca atctgccgcg cttggccttt  240
caaagtgctg ggattacagg tgtnaaccac cgtgcctggc tgactacagt tttttaattg  300
cacgtttgtt ccttgaactg accactgtgg gcattccatg ccttcctcca ctgccgcctt  360
tttccaagc  tgaaaanaca aggaagatgt ngcntccaat taaccanaaa naacaccctg  420
t                                                    421

```

<210> 9218

<211> 316

<212> DNA

<213> Homo sapiens

<400> 9218

```

gtattaaaca catgtttatt tacaacgtgg agananaata aggggcagtt aaggccactt   60
tctcctgtga aacactgcaa aatatgtnc aagtacaac ctaatatagg caaaggttct  120
aaaaatcatc tttcttggct tcacgtaatt atcactcggg gagtgganaa cggctgccga  180
tancaccagg ccatgccagg ccacgccaac aagggcgtgt gcattcactt tttcattgan  240
ctgccctcaa aactgctgcc gancgtganc ctgcacgggc ccaagtgttc gccncacccc  300
acancggtct gaacac                                                    316

```

<210> 9219

<211> 368

<212> DNA

<213> Homo sapiens

<400> 9219

```
ctggttgac atgtttgtt tctttattga aagacaatac agaaatgatg aaacaatacc 60
tcaagggtct tgaacatgga tcaaatgaca gaagtcitta atgcaatggc acagaagctt 120
ctggcatcag cacctgcaag ccctgttcag tcatcattca tgatcgccaa atactccttc 180
tggtgttcaa ccagcttcag gaatacttgg tatttcttat catagtattt tttatcctgt 240
agtctcgga acacaacttt cccgactttg ctcatTTTTg ccattgcttc ctgtacagaa 300
ncgaaatccc ctgaggcaca ngcacccana acagcancac ccacaanaac ggactccccc 360
tcttgca 368
```

<210> 9220

<211> 541

<212> DNA

<213> Homo sapiens

<400> 9220

```
gtttttatat tttttttttt nactccgtgt gcagtgtttt aatttatcca tgtacatagg 60
caattatcat aatttgaagg acacttttta cttattagac tataagaaaa actgtacaga 120
aagtttatac tataaaatta catccctaag tgattagggc cctcagtaac acanaaataa 180
aaaattgaaa agggtcattg ctcggaatc cacataacta cagantaaan cgcaagctat 240
tgttcgtgat cagaaanana cttcataaaa acatcttcac atattcccta ncattatgcc 300
ctactagtaa aaggaaggcc tatgacaatg ccattgttta ttttgtgna cgcagccctt 360
ctatttcctt caaaantttt ttttcctgc tataagataa anaaaagggn tgtntcccta 420
aaatatatac ctaatgaaaa attatctcca canaaactcc cacgttttcc attttccctg 480
gtctcccctg aaattcncc tggaacttcc cncaccaatt ttccaacctt ttcnttgntt 540
g 541
```

<210> 9221

<211> 449

<212> DNA

<213> Homo sapiens

<400> 9221

```

cttttntttt tttttnttg gagacagggt cactctctgt tgcccaggtt agagtgcagt   60
ggcgcgatca cagctcactg tatccttgaa ctctgggct caagcaattc ttctgcctca  120
gcttcacaag catgaancac catgcctggc taatttttaa aatttttctt agaaacagcg  180
tttactatg ttgcacangc tagccttgaa ctctgggct caagtgatcc ttcagccttg  240
gcctcctaaa gcactgggac tacaggcatg ancactatgc ctgcccccta ctgccccttt  300
tttaaagtac ctgggaaaaa caaagtttaa atattctatt tttgtgcccc taattnacat  360
acaatttaag acactttcan aattttacct tattgaaaaa taattnggtt gaaaacttta  420
ctttcgaatc cctttgctgt tttgnngcc                                     449

```

<210> 9222

<211> 375

<212> DNA

<213> Homo sapiens

<400> 9222

```

gaaatacaaa tattcttttg tttacttate aaagtaaaaa ataacaaaaa tcttatcagt   60
taaataaaaa agtgacattc tttatcaagc cttcttaaac actgaaacgc acgcattttt  120
atgctcatgt tctttagcag tatttctccc cttttgcccc tcattcccct aaattgtttc  180
aatgagttca tctgtagaat gaanattgtt acctttctta atgctactta ctttttatta  240
tctcaatate aagaccaatc tagacttttt tgtctcttac atgtgaaatg gatgtnaaaa  300
atggaaaatt cnccancact ttttaagata acataaaaaga agcctaagcc aagcctttcc  360
agggngggaa cccnc                                                    375

```

<210> 9223

<211> 387

<212> DNA

<213> Homo sapiens

<400> 9223

```

aaattcacta cacaaactct gtgatgaggt aagaaaagcg acganggnct tcttgctttt   60
tttcttaaac cattaaagta aaaccgtagt tttctacaga gtacaacaca agttcacaca  120
aaaaagacat tttcttttgc aaatcaaaac aggaaagaaa ggaaaagctc aaacaagggtg  180
aaggaaaagc atttctacag ctgaatcacg actgagttga tcgaagccca ttgttgctgc  240
acaacanact gtgcgtttgg tcacagcggc aatTTTTTTT tctcttcaca ttgtgaaatc  300
actttacatt gttttctagt anaaaaggca aaaaattgtn caaaaccccn agtgttaaat  360
acgtttgtnc caataaaaca ctcccncc                                     387

```

<210> 9224

<211> 344

<212> DNA

<213> Homo sapiens

<400> 9224

```

ctctgcaaaa gacactttta aaacatgata tcttgaaaaa ataaatcgca acaattttca   60
acttcatgca aatcgagggc agaggagtgt gaataatgat aaaagggaga gctgaaaaaa  120
taaacatgat tctatttggg cggaatcagt tcattctcaa aatcttgaac gccatgcccc  180
ggctgccaac ttcacatctc tcgtttccat tcttccctca ctgtcctcct ccgcggctcc  240
tggaaggggc acaaggcttt tgggtctcang atgttgcagg gtacancatg gcggacaanc  300
tcacaccact gaaatcatgg gcaaanaagg ncgggccctc cgga                                     344

```

<210> 9225

<211> 555

<212> DNA

<213> Homo sapiens

<400> 9225

```

agaatctctg tacgtcattt tattttattt tattttattt ttttgagaca cagtcttgct   60
ttgtcaccca ggctggagtg cagtgcagtg gcatgatctc ggntcactgc aacctccacc  120
tccagggttc aagtgattct cctgcctcag cctcctgagt agctgggact acagatgccc  180
gccactaagc ctggctaatt tttgtatttt tagtaaanac ggggtttcac catgttgacc  240
aggctgttct agatcttctg acctcatgat ccgctcgcct tggcctccca aagtgctggg  300
attacaggtg tgagccactg caccagcct aaaagtcatt ttaatttgta agatatgttt  360
actgttttag ananacagaa gctaactttt cattttcaag gactgctgga acaatcntcc  420
atganttctt gaagttgaat aacaggaaac tgtcttgttt tccaaccatt tngctactgt  480
tanaaactgc ctggtcncaa aacccccctc aataaactgc agtncatttg ggcaaccctn  540
ggttgaaaat ttcac                                                    555

```

<210> 9226

<211> 329

<212> DNA

<213> Homo sapiens

<400> 9226

```

agattagaat aaaaatttat ttttgtaaag aattatatit tgtatttgca aaagctgaaa   60
atgctcataa aaattaccag ccagancct ggatttccac cggatccacc acgtgagaca  120
aaagagtctg tcacttcttc ttgccaggtt tgagggcctt ttctagacct tggatgtgtt  180
ttcgaggggag ctgatactct tcaagcaata gccagccgag gtggtggacc tggtttcct  240
ggatctgcac ctgaangctg tccttggccc cnngggcagg attgacngtg gtgctancct  300
ggcatccctg ctgaaagatg gcaccctga                                     329

```

<210> 9227

<211> 431

<212> DNA

<213> Homo sapiens

<400> 9227

```

cttattaaaa aatatattta ttaattttta cacctgctgc atagcacaag aatattaaca   60
ctataactcc ctgaaaggta caataaatgt tccacattta aataacagga ataagggtca  120
acattttcac ccagtggggt cagcttttagc atctcatgaa agtgcttttt agacctagat  180
atcttaagag tttttttgaa agggatactt ccaagtcaga aaacaagaag atcaaaacaa  240
taggtttttc cagaataaca ggaattttac atgatgaaat gtctatttct gtcggtacaa  300
atcaacgata aaaacaaaat ctacatccaa cctactccaa aataactcna ctgggactga  360
atgaagtcta cagtgtcnat gttgtcttga ganaagcccc natatcncc ctggctacat  420
acatgttttc c                                                    431

```

<210> 9228

<211> 437

<212> DNA

<213> Homo sapiens

<400> 9228

```

cntgtttaac tttttaattc nttttcnttt taaattgggc ntgctaataga acacagtaat   60
atgggtttac agatttccta naccaatcct caatttgggc tcagacttga atatacgtca  120
tccaagagaa ctttttcggt ccttcttaag gtgttttaaaa aataaatggc tataaagtat  180
ggggagaaaa catttaagaa taaggtcaga gcacacattc agatacactt tggactcaga  240
tgttctctta gagaactgta ganataaaat gctaattata gtacatgtna acatctgttc  300
naattgataa agagtgaaca taaaataata ggatgatatt attgttacag tcgtctccag  360
acaggaactg gtcttgctct tgcagtcncn aagctaaatt cnggcgatga tgatctctct  420
ctgctggana aaganaa                                                    437

```

<210> 9229

<211> 628

<212> DNA

<213> Homo sapiens

<400> 9229

```
catgtctatt tgattgcttt tttcctgtaa agacagtcac taatgctctt caccaaatgt   60
tttcatttct tctgacacat gccaaagatcg cacttcccca tccttttgaa gttacttgca  120
gccatgataa ttgccctggc ccaatgcaat gtgaacaggt aaaagacata ttttacttct  180
gggcctaagc ttcaanaacc agtgcataat ttgttgtctt ctctctctct aatgcanata  240
acagaagtcc catgagcctg ggtcccacaa anagacatgg agtgtagcat ccagcaatgt  300
cgttataaac ttgtagtggg aattaacaat acacatttgt tgttataaac taagatttgg  360
ttataaacca ctaancataa cctagccact gctgactgat taattcacia agtggctata  420
tcactttgtg tttttaagtg gcaataattt aactcanttc tctattagat acctcaattc  480
ccaatatttt tttttctgan aaatgcntgt ttattttata ccaaaatatt aaattttaaa  540
aattttnttt cccaaaattt ccgttgaaaa ggtgggttttt ggtaaatngg gaattctccc  600
tggggattct gaaaatttgg ggcccccc                                     628
```

<210> 9230

<211> 403

<212> DNA

<213> Homo sapiens

<400> 9230

```
ccatttgtac attatatttat ttttagagta ttttcacata ctgtcttttt tgttgttgtt   60
gttaacttcc cacagtatca cacggttgct ttcatttgag cccccacat ccctgtgggt  120
gaanattggc agacttagct tcatttgtca tattgtctga ggcttaaaaa gactgaatgg  180
cttgccaan atnacaangc agtaaaaagc ggggacttga acctggtggt cctgctctcg  240
```

gttcatttgt atttctcttc atgctcatcc ctgaacacca cggggaatgg caggagacct 300
ctcccacaan gacacctaan aaagatttgg ggcctctgtc tntaacaat aaaagctgac 360
ctcngacaaa aaaatcttca ntctgttggc ctgttgggct tcc 403

<210> 9231

<211> 362

<212> DNA

<213> Homo sapiens

<400> 9231

cactgctaaa atattttatt ttaaaatgta ccacagtga tggatgtatc catactgggt 60
cttataaatg tacacataca catccatata ttgacaaag tatatatatg aactgggttaa 120
agacctatcc naaanaggaa atatttctag aaagttcatg tgtttatact tcattanaca 180
attaaaactt atttgaactg atgaagtttt agttgcttag caatgactaa taataccaat 240
gcctgtcaat aatgacaact aaattgagaa ctataaat t cactgctgtg ccttgggtcn 300
aaattttcaa tgatggaatc ctataataagt nacagttatt ccnntaatgg ggtttntttt 360
cc 362

<210> 9232

<211> 390

<212> DNA

<213> Homo sapiens

<400> 9232

aaaggtatat attttaaacg tgtgtcgtct acctaagtaa ganaatagtc tttgaactan 60
gtactatgtt tgctgttttg gtgatgggtt cactanaagc ctaaacccca gcattactca 120
atatatccat ctatcaaacc tacgtgtgta cccccctaga tctataataa aagtaaatta 180
aaacaaatca aataccagtc aactatttgg ttgactttgg ttgtactgat taactggaaa 240
tgtgcctctg aagccacaca gccagagcaa ctggcttttt gtcatccca atgaaaagcc 300

ttgaaanatg gttctattan ataacgggcc acactgaagc taactgtgca tctagatcac 360
atcaaagcag tanaagtgan atttagcnca 390

<210> 9233

<211> 447

<212> DNA

<213> Homo sapiens

<400> 9233

acgttgcttc aaaatattta atactgtgta gacacgtaaa agttacattt ttatacaaaa 60
atcaatacaa cgaangagaa aatactgtac aaaaacctta tcagctcccc caacctttat 120
acaacaaaga ctgggagtca ccatactac aaaaccataa ggtctttcca cttcgggctt 180
ctgtctgtaa actctcatta aacacttttt aaaagcactg ttagtactt ctgacctaga 240
gcttttaaaa atatctctt tctctataaa ctccattatt tccaagcttg aactcttctg 300
tgaagttcgt caagcttttt ctcccctgcg gggaancaaa ggacgttaat acgccccctt 360
cctagantaa tcacaggata taaacgtttc ctcnttggga aaaaaaaggt ggggagggac 420
aaaaggaatc canttntttg cnccttg 447

<210> 9234

<211> 403

<212> DNA

<213> Homo sapiens

<400> 9234

cagcttttaa ctgtttatta taaagacata tttacacaga acaatcttta caaacattga 60
acacagggga agggaacaat ttcttaatga acagggcctt aatatcttg tataaattag 120
tataanaatc ataaacaacc actttaata aggcagcccc cctagcccac ccactaccct 180
cttctgttcc ctatctccca gctttcttag ccattccccca ctttctcccc ttccccacgg 240
ggctgggctt ggctgcaggt catggcaggc cgatgaggca ggagacacan aaaggaaggg 300

ggaaanaang cccaatccct gatggggcg tcagtggcaa aaaaaacttt ctgggcaccg 360
accantcccc actccaanca tgagccttta agcagcanca gca 403

<210> 9235

<211> 546

<212> DNA

<213> Homo sapiens

<400> 9235

ggctatgtaa ggnatTTTTt tttattattt tttagtttat cttagtaatg ccagaaaaat 60
aacagccgtt attttcactt taaatgcaaa ccaataactg ctgcacacag agtacaaga 120
ttacctatga acatggtttag gtacaaaggc catattanat gtatagacca cactttgttc 180
ttacatcaaa gaccgaccga cagagcaatt ttttgacaat tatttttagca aataaccgtg 240
ctactaaaca aaggcaaata cacatatata cacaacacg tctcaactaa aattatacat 300
gtcactttga caaacaatt ctctgggtgtt ttaccanat attgcaccc caaagttccc 360
tgcccaaate ccgaccccaa atgctgactt gatctgaana aaaaaattag anatgttctt 420
aattaaaggc acatttggca gctactgaaa gtggcatgca tctggcacag gtgcctcccc 480
taagccnacc acatgttcct tccancanct gttatgcanc tgtttccttg aatggtatcc 540
atgtna 546

<210> 9236

<211> 521

<212> DNA

<213> Homo sapiens

<400> 9236

cttgagggtg gaccatanat tgtctattca tgctctttca gacttttgat ataggcattt 60
aatgccataa actttcctca cagcactgct ttactgtat ctcggaagtt ttgatagggt 120
tcttgttttg ttttgttttg ttttgttttt tactattatc attcagtcaa tttttttcat 180

ttccttcttg attttattct tgacceaca atcattcaga agcaagttat ttaatttccg 240
 tgtatttgcg tggttttgag gggtattctc agtggtgatt tcctatgta ttccagtgg 300
 ctgagagagt acttgatata atttcgattt ttaaaaattt gttgagactt cttttgtggc 360
 ctatcatgta tctgtcttgg cgaaatgttc catgtgctga tnaataaaag gtatattctg 420
 cattgttagg taaaagntcc tgtaaatac cggttaantcc atttattgtn ggggtatatt 480
 tnaattccat gggttccctt gctgnacttt ccgggtggga a 521

<210> 9237

<211> 451

<212> DNA

<213> Homo sapiens

<400> 9237

cccacccaca taaactgtat ttgtcactat tatacacaat atggtgccat catgcatatt 60
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 accccacagg gtgggcaaag gtgcttgta atataataaa actgaacaac agtggtanaa 180
 aaaggtacac ttgtacttat ctccaagttt aaaatgtaaa ttttttctgt tcaatggcca 240
 ctacctata ttatttttag gatctgggat cggacttagc aacacattat gactttcaan 300
 aagttgagct cactgttttg tggcgttctt tgcanaaaca ccatgaactt ccgggggtgcc 360
 ccatgttgct gacaantgtc aaaaacaact ggtgtccacc tgacttnagg ctggacttnt 420
 gttataggca ctttgttggc catancnccc c 451

<210> 9238

<211> 392

<212> DNA

<213> Homo sapiens

<400> 9238

agaatgagtt gtanagtttt atttttgtga atatagtgag tgacagatgg caattacatg 60

aggatatttg aacgaaggta cataagccta aacaatttca cctaggtaaa atattgatgt 120
cataaccaaa ctatatggcc ccgtttcata aaggttacta tattctatan anagtgaana 180
ggtggccttt ctatcccagc ttaccctatt ctigtatttg ttcaaattct cctgaagctt 240
gcataactag ctgccatcag gtaaagtcta ttggctagca gaagactgca gttctgttaa 300
tattanaacc ancaggggga acttgggaac ttgacattaa aaatctanaa aacanaattt 360
taggatgggt ctcggtanaa acctgaattg tt 392

<210> 9239

<211> 211

<212> DNA

<213> Homo sapiens

<400> 9239

anagtgcatc aaataaatat aaattttatt aaanacactc ncatagcatt atcnggaatg 60
atataataat aaacagcttt caaataacct gcattcataa cattacaata cttacagtat 120
ttataacat ccncanactt tataaaccaa acatctcatg aaaatgaaat gaagctagtt 180
tttaaaaaag catanaaaaa tgcncacana a 211

<210> 9240

<211> 367

<212> DNA

<213> Homo sapiens

<400> 9240

gagatagagt cncnctctgt tgcccaggct ggagtgcant ggcgcaatct tggctcactt 60
ctacctctgc ctctgagcc ccaatacaag caattctctt tcctcagcct cccaantaac 120
tggtgatacag gcatgcacca ccatgcccac ataatttttg tatttntagt aganacagag 180
tttctccatg tnggccaggc tggctctgaa ctccggacct tgtgatccaa ccgcctcggc 240
ctcccaaagt gctgggggta cagggtgtgag ccaccacgcc cagccaggat gcaatcttat 300

tgggtgtgtca cttttacccc angaagcnaa aaagtggat gagtnagctg gtacgatnaa 360
ctgtnat 367

<210> 9241

<211> 492

<212> DNA

<213> Homo sapiens

<400> 9241

gtagagatca ggtctatgtt gcccaggctg gtctcgaact cctgggctca ggcgatcctc 60
tcacctcagc ctcccaaagc gctgggattc caggcgtgag acaccatgcc tggcctgtgt 120
ttttaaaccc atgtcacagg acggtattca gcctgaacag tttcctgaa cagaagacag 180
ggaggaaagc cagccacaca gcaatacacg cagcaggatg cagcttcggt cacattcaaa 240
aagtgcctc atgctcatgg ctgcgcacat gcagattcag aaaaaacaaa cccacgtgcc 300
aagctcctgg ccatggctgc tcagggtatt cngggcgagg gacttgggga aggggacaaa 360
ggccccang gaaacaattt aaccaagggc ttaaaatgct ggccatcttc aacactgaca 420
ctgtcancaa tggctgcttc tgggtnaggg gaactggata ctgtcatttn tctatttgna 480
cagtnttaa aa 492

<210> 9242

<211> 509

<212> DNA

<213> Homo sapiens

<400> 9242

aagaatttta agtacatttt attaacaatg tatccctttg ataagattat gcttcaggag 60
gcttttaatg cccttgacat aaactataca cattatacaa aaacaagaaa atcacaacaa 120
aaaaaatcaa ggtgagcaaa accatttggg gacaaatctt atttaaatta tacacaactc 180
aatgaaatat tcttacagaa aaaatataaa tactttttct ttctatgtta cagttataca 240

atataaatca gatttcaatg tctgttcagt gacctacaaa caccagaacc tccaaatatg 300
tagcagcgta ttactaaata aaaaagaaga aactcatgtg gttagagagc attaagtctg 360
agattttttt cacaattcct taccactttt caaaactagt ttacaccatt tgttttacaa 420
tgcagcttta nggttctgac aggtattttg ttcaattanc tataaaaantt ttttcntcc 480
ccccccctgg ccccaaaaat tggctttgt 509

<210> 9243

<211> 499

<212> DNA

<213> Homo sapiens

<400> 9243

ctaaacttct cttctcgctt catttcattc ttttgatctt caatcactga tatcctttct 60
tccagttgat tgaattggct actgaagctt gtgcattcat cacgtagttc tcatgccctg 120
ggttttcagc tccatgaggt catttaagga cttctctaca ctggttattt tagttagcca 180
ttcatctaata cttttttcaa gggttttagc ttctttgcga tgggttcaga cttcctcctt 240
tagctcggan aantttgatt gtctgaagcc tacttctctc aactcgtcaa agtcattctc 300
tgtccagctt tgttctgttg ctggtaagga nctgcgttcc tttggaaagg aanaagcgct 360
ctgattttta naattttcag cttttctgct ctgttttttc cccatctttg tnaatttaac 420
tacctttggg tcttgaagan ggtgatttca aatggggttt tggggttgat ttccccggtt 480
tgttatttcc ctctaacta 499

<210> 9244

<211> 570

<212> DNA

<213> Homo sapiens

<400> 9244

atcttctcac atctttatta tgtattttat aatcctagct caaaaatcac tcttgtactt 60

ttagatcaca aatttgcctt taagtaacac ataatacact taaggcagat ttgccttaca 120
 ggtggcctca gcttctaaac accactacac tgctttatat aaaaaacaaa aatcacatag 180
 aagagaatct agtgacatct ttcttggtat tttaaactta aaaactgcat aataaattga 240
 gttcccataa aatttcgccc ttgagatagg aaacaaacac tactactatt ttatagttgc 300
 ctttatctga cttgattgat gcagttataa tagtattaat aacataatct ttaaatttgt 360
 gagggaaaac caatacttta tattcncctc tcataaaaagg ttcaacagca agcataatga 420
 agancntta taaaatccta ttgctaagta ttactttaac tcntaattct gcttatataa 480
 gtgtttgcnt atcccagtta acaaattcta ttttaattatc ccagaacttn tgccaaantt 540
 tccttgaatg gctttaatac ncggaagnta 570

<210> 9245

<211> 501

<212> DNA

<213> Homo sapiens

<400> 9245

attttaaggg acgtgtttta tttcatagct ttctgcaagc aaaattgctc tgatacaaaa 60
 tgagttcaat gatacaggtg ctactgtcca ctcaagcaaa anaaaacctc ncatgtntat 120
 gaacgcactt tatacttata ttcttacagt ataataggctc taatatccag gatgcctctg 180
 gcctcattga aagcaatggc anaaaaatgc tgcaaggtac ttgaatatca tantactggc 240
 aagtgcctga agtaacttcc tgtgagttct ctgtcanana ctgcaaaaac tgcgtgtggg 300
 tgtgtttgtc ttttagtctt ccaccttng gtttacattt aaatcatctc anaaaatata 360
 ccctgcatgt atcattcagc ttctcagaat ttccataaaa acaggaaaat gtcataaggt 420
 ttccctaact ccgggantga ngtagtgctg tggctgtccc aaaagatttt anttacctgt 480
 tngtncagta ctgaatttat t 501

<210> 9246

<211> 384

<212> DNA

<213> Homo sapiens

<400> 9246

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aaaacctccc gtttaatatc agatgccaca catacnaaat cgatgtgcac gtcggganaa   60
acacagcaca gccaggantn ctggcgacac gtgaatacgc ttccgtcctt tcaaaagcct  120
ttcccgaacg gnatcttgtg aaaaatgcc aaaaataaaat gaaaaaaact gccaggaaaa  180
nanaactggc tttagtggtt aacgaaatgg attctccana agcatggaaa tcaggactgc  240
cacncagggg aacgcacana caggtcacaa cgcaaactgt cccctganc ccccatctt  300
caaacacgct catgcacact ggaggcgctt ccaccgccag gcccgcgtga anacacagcc  360
gggtngnccc ccnccaacg ggcc                                           384

```

<210> 9247

<211> 569

<212> DNA

<213> Homo sapiens

<400> 9247

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ggcttatcaa atttcaaata tattttactg tgctgaacaa tatattctaa tgctgtctaa   60
aacacagcta aattatTTTT ctttatttgt ttatacacat tcggtaattt ctgaaaagca  120
agatttaaaa atatttatta acaaaactac ccaattacaa tgactgttct ccatacacg  180
caactatTTT ctgtagctgt atcttcttac ctcatccac tttaactctg tataccgtat  240
tgatttgtga tgagatgatt tattatgaga actcttaggg agttctcatc ttccatttct  300
catcaattca aacagcaaca ctttcacaa gataacatta attcccttgg cagggcagaa  360
gcttaagttt gttaaagca ctactgaaa aacattttta aatttatagg tcatataaaa  420
taatttacaa agagacagat gacttcnaat attatttggc agtcacctta ctatgtngaa  480
acataaatga aacaatctgt ccacnaaana ccatcccttt tggcctttta aaggaatttn  540
ttttgggaat tnttttctgc aggccttcc                                           569

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<210> 9248

<211> 525

<212> DNA

<213> Homo sapiens

<400> 9248

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caggggaagg tataatTTTT attgacgtgt cctcagcaca aggtctgttt tcaatTTTct 60
gagaaatcaa cttgagtaac gtataaaaat taaaacaaca ctgaactttc gttccagttg 120
ctgtcaccac caagcctgct ggctggcacc tggaggagct gggaacaaaa ggtaccatgg 180
caggtgaaag gcccaagtga ccaacactac atgggctgat catttcagct aaatgccttc 240
tgTTTactga aaaacatctt ggatagccca gttctgcggc caagtgtgct gtatctgcct 300
ccctgggcca cctgctgggt acttgtgcag taggaactgt gTTTtacacg tctctgaatc 360
ttcctcagtg cttatTTTctc agtggttgct gaactaatac ttgctaaaca aatgaattct 420
tctttattca gagtccatac aaatacaggt accttcataa ncccaatgtt actgganaca 480
taaaanttga atcaacanaa aacaagttct ccctatatcc tcnta 525
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<210> 9249

<211> 572

<212> DNA

<213> Homo sapiens

<400> 9249

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aaattatcaa cTTTTattta ttgagcacct atttgttgcc agggcccaca ccaggctctt 60
catatgtgta accaataatc acaacaaaga gtcaaataa ttatgtgtat gtagaanaag 120
anaaaactga ggcttacagg gactaaataa tttatccgac atcaatgctg gtaaaatatt 180
caaatgcaat attcaaacc agaccagct gaccctccca cactgccata ctttcccat 240
gttgccaaaa cactgctttc cagagcacc agattctgaa ggaggcccag gagaaactca 300
caataccctt ggctggaaac agggaaacac tcacgcacac acaaaaggaa aaatgttcca 360
aaatatgtct ctcgtgaaat tccacttttg gtacagaagc acatattgaa agaanatttc 420
tctcccatc atgttgggct ttgcattctc cgttgctgct actgctgcct tcttgccaa 480
```

ttaactgncc atgttccatg ttctencatg cccatccntc caggattggt tccngatttc 540
ctttttgaaa aaattntccc cccggctgca cc 572

<210> 9250

<211> 567

<212> DNA

<213> Homo sapiens

<400> 9250

gtagaataaa atacttttaa tggtttaata ttgtaaacca gccccctcc cacacacact 60
ttttaataat gggttaaact ttccctttc tgtaaggnc tagctggttt tctgactagt 120
tgcctaaaca tgtttctcat ataagcgaac ctgaacatgc tgctgctatt aatcatcata 180
aactgtaaaa tgtggttttc tggaaaactg gtactttggg agttttataa tccittttgga 240
gtctaagcca gcacatctct gtgagttcat tctaaaaaat gtgctttgtc tttatcttta 300
gtaatccaag accactctaa aattaaggcc atcagggaac taacaaactg atgangcatt 360
ttcttatant gcttttttca cctactgctt gaatgaacag atctttctga accattttca 420
tcaggccttt catcatctga atcaaatcca aaaaatttct gacattcttt tgtgcaaaaa 480
aaaccccatt tgcttctcat tacataaggt ggtcgggctt ttgcccttct aatncttnc 540
agnattttta nacctttttc ttgaata 567

<210> 9251

<211> 574

<212> DNA

<213> Homo sapiens

<400> 9251

gcttttcaac aaagattcaa catcttttat ttacatgttt atgacataca ttaatgggtca 60
tacacaattt ttaaactaaa tctagtaaca acagaggatg gaacataaaa gacacaattc 120
caaattttag tcagggtgaa atgtttttcc actaactgaa agataagata aatgagcagc 180

cattataaag ttatgggctg tatgtcaatt cacgtcttaa aattgaaagt cagccacaca 240
 gctgttaaaa caatgggaaa ttgcaaag caaatatata atgcatgcac agctatcaca 300
 tttattcttt atccttaaag ccatttttaa agtaaactgg gagaggcaac ttagtaatat 360
 gtacatcaag gcacattctt ttcttgtgct ttaggaatga ttacatgtg atctgcttat 420
 atcttaattt tatactttat aacagcttct aatacctaaa agcttaattt ttaacaatta 480
 ttctttgagt ggtagtttcc cacaaaanaa atgtggcatc tctcatgggt atttccaagt 540
 cagaaaattg gatacctgaa gaagtnggat ttaa 574

<210> 9252

<211> 495

<212> DNA

<213> Homo sapiens

<400> 9252

gacagacata cttttattct tttatttttg agatggagtt tcaactgtcac ccaggctgga 60
 gtgcaatgga ncgatcttgg ctcaactgcaa tctgtcttgg gtgacagagc gagactttgt 120
 ctcaaaaaaa attcttttaa ttaaaaaaaa aaaaaagctt tactacttcc tgtggagttc 180
 ataaaaagtt cttccctttg ttttagtcat ccanantaaa gtcatagggc tcaaagtctt 240
 tccggaagcg gcganccagg gtctcctcgt ctcccttgct gatctgacac tgcctccagt 300
 cagacttate aggaacatta agggatggct tccctggcca ngaactcct tccaaactgc 360
 aaangaaaat tctttttaat tctgtggaaa ancttttctc ctgtgtcaag ttcaacataa 420
 aaatatgctg ctcttggtg tgcaatctgc ttgangtnna aatgctctgg gaattccaac 480
 anctctatct gcngc 495

<210> 9253

<211> 576

<212> DNA

<213> Homo sapiens

<400> 9253

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ctgaagtggg gaattttaat attgtataaa aaatccaact tgttccacaa gtacatatgt 60
cctatgattt tatgcataca tccatataca tataatcaagg taaagtccag tacaaaaaaa 120
cagcatttcc tatggccagt gttctacaga agtaagactg tgcaaacttt atcgtatagt 180
caaatganat tgcacactaa ggcaggatga ggcanaagca agttgtgtcc acagtatatt 240
acaaaatacc ttgcatagct tattcattct cacctggtaa attcatctta naattctgaa 300
ggattttttt cctaaaataa atttatacaa gttagtggta tacttcttgt ctttgttcct 360
gtggcaaacc angtttctca gtactgattg ttttacttcn caacattatt gatttaacaa 420
taacctganc tttggggctc tgcactgcgt tcattgtaat ccgtgataca atgactacaa 480
atgttttncg aantctaata tccacctgtt tctcaggcga attnccaggg gtccaatccn 540
ctgtgtcatt ctcnnaaacg ccgtgttaaa ttcctt 576

```

<210> 9254

<211> 446

<212> DNA

<213> Homo sapiens

<400> 9254

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caaagagaca ataatttatt tttaaaaacc attaaagact tgaattaatg gagagataca 60
gaattatcat ggatagaaag ataacattct ttccccaat taatctatan attcaatgta 120
attctaataa aaaaccttaa cccgattgtt taattctaca taatcattta atcctaaagt 180
tcacagaaag agcaaggggt caagaacagt caaaaccatt ttgaaataca ganaaggggtg 240
ggcanaggan acttccttac cggatgtcaa gaatttagga taaataacag agagggcatt 300
ataatcagca gggaaacgtt ggaccattcc ataaactgct aagacaactg attatccata 360
tgggaaaata atggacttta tgccataaac aaaattnnnt tcaaagtga ttaacaaaat 420
anaaaggcna aatcctnaaa ttttta 446

```

<210> 9255

<211> 305

<212> DNA

<213> Homo sapiens

<400> 9255

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aaaataaaaa aggtttttgt gctttattta ttcntgggcc ttttgagttg aaagggaaaa   60
aagttttaat attttcaggt tggatcnca aggactgaat aatacactta tgaaggnttt  120
caaaaaaatg cttgatttgt ttctaaagga aaggctgctg atggtaattt gtgtgctgct  180
gtgcaactgg atganctgga actgtcaccg gaaagcctgc cagttgaggc aaattggaan  240
tnttgttctg ataaaatnac atatccacag acatcccent ttgctgtgtg taagcagttg  300
tncca                                           305

```

<210> 9256

<211> 597

<212> DNA

<213> Homo sapiens

<400> 9256

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gataaactct agtattttatt aaattataaa ttttgnatc aaaaagaaaa atgcagacca   60
aaaaaacctc aaactataag actagacagc aaagcctatg ggaacaccat gaaatgtgtt  120
acaaacattc tgaacataa gttactggct gttttcattt ccatttcaat aactttacta  180
taaaatagtt gttattcatt tattttgaaa tcccaaattc acatctattc atacattaaa  240
ttatgtttcc tgttcataat atcaaacatc tcacaggtgc caaattttag taatggtctt  300
atgccaatcc atgcagaaaa ataagacaca atgcaggagt cagatgagga ccattaatgc  360
acagataatg caaacacact ggccaaaaga actacagaag tttttaaaaa gtattaagta  420
aacagacctc nagaaaactg gggtattact aaacagctct cactattaac acccaagttc  480
cttacattaa ataaattctc acaganactg ttanactttt aattatgaat ctatccttcc  540
catacccctc cacccaactc cccaaatgcc tactagggaa gantntaagt ttnttgg      597

```

<210> 9257

<211> 401

<212> DNA

<213> Homo sapiens

<400> 9257

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aagctggaat cttgctctgt ccccaagctg gaatgcaatg gtgtgatctc agctcactgc 60
aacctctgcc tccccggttc aagcgaanct cctgcctcag cctcccgagt agctggggat 120
tacaggcaca agccaccacg cctggctagt ttttgtatit ttagtaaaaa tgangtttcg 180
ccatattggc caggctggtc tcgaactcct ggcctcaagt catctgcctg cctcagcctc 240
ccaaggtgct gggattgcan gcatgaacca ccgtgccag ccaatgactg tctcttgana 300
aggggtgaan gacttggcat acngcaaaac ccaagatcaa attcctgggg cctgccatgg 360
cttgggtngg ggttgggaaa ntgttaggga agttaatccc n 401
```

<210> 9258

<211> 505

<212> DNA

<213> Homo sapiens

<400> 9258

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attctgtaaa aatggggaat ctactatat tgcccangct ggncttgaan tcttcgcttc 60
aagcaatcct ctacttttg nctcccaaaa tgctggggat tatgggcata agccactgtg 120
cccagcctag caaactgttc attttgaaat ggtaatttt atgttaagt aatttcacct 180
cnagtgaaaa aaaggaagan gaaacagtac tgtgttcac atacgttgtc ctcaaanaca 240
gcctcagttc tggcctggga cttttccac tataaaacct gttcacatca gancatctgt 300
gancaaaggg catggcactg gangatttgt gggagaaatg aagtgagaac ttacatggca 360
cctcagtatc aaccctcat cctcatcana taaacctgct ctccacaagc cttcccacc 420
tcccantca acaaggctcc tttcccggtt cctcccatcc ccaccgcag nctctctct 480
gaatccanca attctgctcc nanca 505
```

<210> 9259

<211> 593

<212> DNA

<213> Homo sapiens

<400> 9259

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acttcagaaa catttttact taatttcctt aataaattac tgcttaaaca ccctatctcc 60
caactatatt ttacatttc aaaaattatt tctaaaacag anttgtaatt ttaaaggca 120
cctaccatcc atatgacata ctgattaata taatcaggat cactgagttg atttattaat 180
ggaggaanaa ttccctcgtgc aaggatttcc ctgacaaagt atcgcatgat cttgttctgg 240
aaatctccag gaggtagcaa taaatatagt aagacctcac acaaaccct taggaatcct 300
tcttcattct tgggggaagt gcacactana tcacggcaaa cctccttctc catttcaact 360
tcaacttcaa agaaaagtat ctacaanac ttctgctgta ctttcactt gatcatcttt 420
ctctgttatt ttctgttgag ccttctgaa tactcntaag tgtttgccaa agtcatctac 480
aatgctttta ttaaataaaa ggtgccagtc tatttccttt gacctattac caactgaaat 540
aatncttttt gaaaattctg cccatttcca aaaaaaaaaat cnnncnccctt ant 593
```

<210> 9260

<211> 455

<212> DNA

<213> Homo sapiens

<400> 9260

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catggtcgaa ataattttat ttatccanaa tatacagttt aattcctcta tctacactta 60
ttacatggc taaaataaca ttgaaaaag tcttttgaaa agttgaggtc ataaatttca 120
aggcaccatt gaaagtgtcc acagttgcgc aaaaaagtc ctctgtaaaa aaaggggggg 180
gtcttttgaa atgcaataac ttacatgcaa aaaaaagctt tacacatgaa tctttttcag 240
ttttccgaac ttcccatat gaattccttt ctttatgatt ttctanaaca gcaaacacac 300
gtagtccna aaaagagagt aagagagagc agcccatcta atanagtgtc ccggaggcca 360
```

gcgccagcgg gtgctgtaag gagcccggcg gcggcaggtg ggaattgatt ganctggctg 420
cacttgtgta ccangatgca aanttctcca nntta 455

<210> 9261

<211> 535

<212> DNA

<213> Homo sapiens

<400> 9261

gtgatttaat tatggtttat ttcacagtta tcaaaactaa ataaacaaca gggtaaaaaa 60
tatgcacaga ttaaattctt aatcagcaca atataagttg cttaaganta ctctgttcaa 120
aataaaggtg ttattaacca caggaaaagc tgtttttaag taatctgaat aaagttttac 180
tcagtttcat gactatcaaa aagtcttgat ataacactac agacagaatt aaggggttta 240
aatttttagga ttaanaattt agctatctga ataattttaa tttcaaacat ttttctttcc 300
ctacatttca ctggcaaaat taacttcaac tattattcaa ttctcctgga ttatgcaaaa 360
gctgctgaaa atttgatgta tgacacattt ggctgacact ctattgcaac ctatgaatgg 420
gtttaactat tacacagtat tcattttcct ttcaaagatt ttacacaata gtgacagtna 480
nanaaaatat gtnttaacaa aaaatcccgg aaaatgggcc tatatganaa atatc 535

<210> 9262

<211> 561

<212> DNA

<213> Homo sapiens

<400> 9262

gggncaaaaa aactttatta gcttagtctc caccctttta aatgtactct aggtacaaaa 60
taaacattat acacatataa natcagtctt tccaacttta gaatgtataa ataanaatga 120
cattttaaaa taaaatagtt tagtcacagt cacacaaaac taccttctaa ggaaaactgt 180
ccagtgaagc cgttaaattt gtgctttcag ctatgaanaa ttaaacttaa aatgcattca 240

ttctttctttt aatgaaaaat aacctaccct tggaaacagc ataagcattg ttatggtagt 300
ctanctccta aatgaaaatg tggactgagt tacagtttac tgtagtaacc tacctaagaa 360
gcctttgaaa attagcaatc gatcnaagta ttacataaa ttcaagcctt tttcttagga 420
caaaaggtaa cacagttcct taacctcttt taaaangaac tttgaaatta aacttatggt 480
cacacttcat tccaaaatgt gcttaaataa caaatcctc tcncanangc natgtccatt 540
tcctcgtaac ctcccctggt a 561

<210> 9263

<211> 576

<212> DNA

<213> Homo sapiens

<400> 9263

gagatggant ctactctat cacccangct ggggtgtaat ggtgtgatct tggctcactg 60
caacctctgc ctctgggtt caagcaattc tccttgccctc agcctcctga atagctgggg 120
ttacaggcgc ctgctaccat gcctaatttt tgtatttttag taaanatggg gtttcacat 180
gttgatcagg ctggttttga aatcctgacc tcaaatgata tgcctgcctc ggcctcccaa 240
agtgctagga ttacaggcat gagccaccgt gccagcccc atttgttttt ttttcaagcc 300
aggcttcac canaaaaaan aatctgtatc atccttgctt catctataga aatataatat 360
aaataaattt agcaagtgat atttctcaa acttgtttcc tctttcctcc tattatctct 420
actccgattt ctttctactg tgctttttct attttcttaa atatttatga atctcattgt 480
ttctttctct caactgtatg ttttaaant catctanttt taaanattca ccattgttac 540
ccccattcat ttncataattg gnccaattaa cattga 576

<210> 9264

<211> 542

<212> DNA

<213> Homo sapiens

<400> 9264

gctagtagaa catatatatt tttttttatt ctgtatgtta acatatatat taatatatat	60
atagaagcat gcatatatag cctaatatga tggaagtata atagatttaa ctatatttca	120
agaaatagta tctatgcata gatagataaa tatgtacata tttctaaagg agaagaacag	180
gaattttaaa atttctttcc tcatagaact atggcattat ttttgctata accatttaca	240
taaagtacta tattgttaca gatatcaaaa atgttcaaat ttatggttgc ttatgaaatt	300
gtcattagat tttaaagcct gtgaagaaaa ggccatacat atttatcat ctttgaatct	360
ctatagtcct gggaatatata gtttaccatg tcaactttcn ataaaatgaa ttaatagtaa	420
gtacatctta aaataatccn gaaaaaata aactttaaca cttccataag ataattggca	480
agtaattaat atacctccct tttactttga gaaaatanat cccctatitt cccnnngttn	540
tt	542

<210> 9265

<211> 381

<212> DNA

<213> Homo sapiens

<400> 9265

gaacgcttag taaaatattt cattcagtac gtcttgtttt tctgagagag gcaacggcag	60
agggttgggg gcagtgtgtg tgtatttgtg atgaacctaa ctctcatgc cagttctctc	120
gagatttctt cgcgggggct gccgcgagga ancaccctcg cccctgtcgg tggaaagaag	180
gaagagagtt ctctaccaca gaccgctgtg ggtgtagcca ctgggtccgg ctctgcaaca	240
aacgggttgt gtatgtgtct gcagaactgg ggtgacgcc atctggttta ccgctcaggg	300
tgatggaatc cantgagctg attaggagaa cgctgtcatt ttccccagcc tgggggtacc	360
atcaaatcgc ccccccttg a	381

<210> 9266

<211> 502

<212> DNA

<213> Homo sapiens

<400> 9266

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cttgaanatg ttatttcggt aaaactgaag ctctttgatg ctttcactaa tgtcatcaag   60
tgccctatga gaagcagcct tctttggtgc aaattcatat tcttctggat accagcgtct  120
gcacagttct ttaacagtgc tcacatcaat tattctataa tgaanatggt tcatgaactg  180
gggcatgtat ttgtcaagaa acttcttata ttcatgaact gaatttccta gaaagacacg  240
aagcatactg catctctata tttctagtat tataacaacag gatatcaaaa ttcataantt  300
gtatttgaaa tggagatnat tttttaaaat tcaaacaatt ctaaaaagcc ctctatatatt  360
ctaaatcagg tttgggtaaa tgtgattagc ttacaagtac agatttccaa gtacttagtc  420
cgtttancct ccttataaat ttgttaatga cncacctgaa cagaaaggac aatctntcnt  480
cccatgcct tgaatnttat gc                                              502

```

<210> 9267

<211> 540

<212> DNA

<213> Homo sapiens

<400> 9267

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aactgatgaa acatacattt attttttcca atcaagtctt aaaagtttga tgaaagcgca   60
ttattgttac caaaagtctt caggcaataa cagagataaa acttaacaca gacaaacaat  120
gattttattc catagtctct tggacttgag aatccatttg agtttcagaa agaatactaa  180
attaatgggg gttatgtcag gatgccaatg tccatgctga ggcttctcct gatacaatct  240
tttgcaacat aaccaacaaa gatcaggagc ttaaaacaaa aaaaacaaa aacaaacaaa  300
aaacaagttc atgttatttc tacaatgtcc aaaaagaaag accaagatct ttgcttaaaa  360
atagaaatgc atnctgcngt ggctcaaaaa cttaggcctg catccaaatt acatgaagcg  420
cttgtaaaaa cagattgagc ccntctgcn aagtttgtga ccagtggtt ggtgggggcc  480
aatnatttgt ntctacagg ttcctaantg aatcaagccc tgggtgctgaa acaccttta  540

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<210> 9268

<211> 474

<212> DNA

<213> Homo sapiens

<400> 9268

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acttgacttc aatgancctc tcggcttctg aagcacctgt aataggttag atacacccaa    60
aacgggactc aacatcagct tccggctcac tgattttcgc aacacagatc tctgacagtc    120
tttctcagaa atgtatcagt acgttctcca agttgtgagc tgttttttca tctttttccg    180
tgtctgcttt ggcttcccag gaacttanag tttctgctaa atggttaaat agctgccccat    240
gttgcaatcc tgggtctttg agaactgcat caataaaagg gatcaacgtg tgcattgtctt    300
catttgatc ctttgtaata tcatttatag taaactggta aattgtttct ctgagttctg    360
tgagacagtc tagcaaatta agcaaaccac angaaggggt catggggatc ccgaattaaa    420
atttaancct ggtgggcnaa aaccnagtt aaaaaaccng ggggctgcca atgg          474

```

<210> 9269

<211> 386

<212> DNA

<213> Homo sapiens

<400> 9269

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gtaaaattct gtatgtatgt caccattttt ttccacatga tacacagaaa actcaaggac    60
ccagagggga accaagttat gttataccat ttacaaaata ccaaggagtc cacagctacc    120
taacacattt actacagcac aggaaccaat gaaggtacag tgtacaaaaa actgtaaaca    180
cggcacaata aatagataaa acagcaggtt ccgcaccatg cacatgatgt gatgacactt    240
catctctaca caatctcaca tctcacactc tttgttgcaa ttgatttccc tcccaccccc    300
caccaccaan tgcaaagcat cacaaatgaa catttctgtt ttcaantnac atntntacaa    360
ggggtattac aaatatgcag tactgt          386

```

<210> 9270

<211> 390

<212> DNA

<213> Homo sapiens

<400> 9270

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aaaaataaaa atatttattt ggaaaatatt agtagcatga taactcaacc tcaccagata   60
ttaacagttc atcaggtcag gcaatanaac aagtccacat gagcttctta aaaagaaatg  120
gatgaccact tcaatagctg actccatctt ccattttatt actggatgat tcataatcca  180
aaatatgaag ttttgggact ttttctcaaa aggagaaact ttgggaaagt gtctgaagca  240
atggtattga tctttttttt ccccttttat gaaactttaa ctgcatactt cagtctgggtg  300
gaatcttttg tgttattctg actgggccat aanaacccaa ggactatgtt gataatcctg  360
atnatttcan caacacttcc aaanttcnct                                     390

```

<210> 9271

<211> 537

<212> DNA

<213> Homo sapiens

<400> 9271

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catgtaattc agttgatatt taattacaag ggaactcagg ttcttacaca angcaggaaa   60
tggaatcagc cgctccccac aagccttttc aacctgggtg actgaagctg aagaaatggg  120
ganacatgga acatatgggg anggttctgg cacantgtgt cctgccccaa gctganggtg  180
gtggccactg gggatctgcc ctgcgctgg ccaaggtctg ccatcactcc atgangcaaa  240
actctgactc ctgctgtcgc atgttgggta acacatacag anccacagct gcaatancca  300
aaaataccat aggcttccac aacccaaaca tgttctcatt cttgtcgttc tggggggcca  360
tgggcttttc aaggcattcc atgcactcct tgaactccct ttacangca tccanctctt  420
ccttcaagtc tttctgcttg gncaataact tttccatctg ctcttgcaac tgggctgttt  480
tccnccgggc ttatctgggtt acatggncct accnctgca ctttattaca ctttccc    537

```

<210> 9272

<211> 563

<212> DNA

<213> Homo sapiens

<400> 9272

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gagaaactat ggcacttta ttattttgct gttagagcca taaatttcac ttaacttcat   60
aatctatggt aagagtatta gcttaaaaat gtattttgaa aagattttac atacagattt  120
aaaagatagt accttgaaat ggtttacagt taagcaaag aaatatcaca aatacaagca  180
gagctttgag atctgagttt tgtaaagct anaactttgt ttcctaattt tttagttctt  240
caaagaatta agaggctgca ttatataatt cattttagta tgtttacctc aagtactttt  300
agaactagac tgtattttca ctgccacaga tgtatcatgc agggagtatc ctggtttaaa  360
ttctgaagtg ctttcactcc tacttggttc accttgaaaa tcgtctaaaa agaagttggc  420
acattatttt gcgaatgtta ctggacatca ggaaatacat gactggatct aagccactat  480
tgaaagatga nanaaccccc tgatctccnt gggtttgta aaaattcttc ccnttccaaa  540
aaaacttttn ccgtgtaaaa aat                                     563

```

<210> 9273

<211> 381

<212> DNA

<213> Homo sapiens

<400> 9273

```

agagttatga ngttttcact tttatttata aactcaaaaa gggctggagt tacacgatat   60
ttatttgcac acagcttcgt gatgtincaat gtgtgttcac atgctccatg ttttttgatc  120
cccacgtaag gctgtgagat agacttgatt tattagtctt ggtttttagg ctgaggaaca  180
agtccaggag gttcaaggga ctcatcagga tcacacagcc agaaaatanc aaagtctgtt  240
cctgactcca agtcagtang ttttgtcagt ctgtgttggt gttggagana acagtcggga  300

```

gacacatgga ctaacacaaa angaatggat gggagancan gcaaaggttt ggacctgcct 360
tgtcatccca caggacangt a 381

<210> 9274

<211> 485

<212> DNA

<213> Homo sapiens

<400> 9274

atcttacttt aaattccggg atacatgtgc agaacttaca ggtttggtac ataactgtat 60
gtgtggcatg gtggtttgct tcacctatca actcgtcacc ctagtgtaa gccctgcatg 120
cattagctat ttgtcctgat acttcccctc ccctcaccct cacccccacc ccaatangcc 180
ccgatgtgtg ctgttactct ctctgtgtcc ctatgttctc atagttcagt tcccacttat 240
gaatgagaac atgcgggtact tggttttctg ttctgtgtt agtttgctga ngatgatggc 300
ttccagcttc atccatgtct ctgcaagggg cattatctca ttcttttta gtccatggtc 360
tttttgact gctagataat ctctctaacc ctggcgggga aagccttgc ctgcctaaca 420
atctttgttt gctcatgcat tccatcnanc ctncatgcat ttctccaca aaaatttaat 480
taanc 485

<210> 9275

<211> 423

<212> DNA

<213> Homo sapiens

<400> 9275

acttggccaa ctggctcttg ttctcaacce tgtgaggag gcatcaacce tgtcgggtga 60
cagatgagac tgtggggcag agccanctcg cccaaggcac ttgcttacia tggcagagac 120
agaccttgat acacaggact ccctgataac tgggcatggt gtctcgatga gtcggggaca 180
ggtttcccct cttgcatctt gtaaacaaaa gccacccta agtcaggaat cttcacacac 240

aagccccagg aagctgcggt ttcctccta gctggcctct ggaccgagtg cagccccact 300
 tgtctccctt tccctccacc atgtcaggct cgcactgggt caggccagggt angcaacaga 360
 gttggcccag ccatactctt ctggagactc tgaatcccct gggacactct canggcaaca 420
 naa 423

<210> 9276

<211> 384

<212> DNA

<213> Homo sapiens

<400> 9276

acatgtctct gcctctgttt tcagtgtggc ttggacagg aatatatgaa taaatcactg 60
 ccatacagggt ttccaatac acaagtgcta gaaaatacac acaattcccc aatgcgtaag 120
 ttgtgctaata gtctttccaa gttctgggtt gggaagtgga nggtggcanc gtttgtttgt 180
 gcgcaaccgt ccagtcctgt tcacagcgag gatttggagt cctccagggt ctcacatgg 240
 gagtgatttg tcagcggacg cctctgccct gtctggcttc aggtccaagg aaactttgaa 300
 ncantcaage cttgtctttg taccccatgt ntcctgtctt tgttgantca ctcaaaaatc 360
 actcctggac cnetgggggt tgga 384

<210> 9277

<211> 330

<212> DNA

<213> Homo sapiens

<400> 9277

gcataagaga ttttaagaga gcagatttaa gaaagattca gatgacttca cgtgagctac 60
 tgaccatata aaccttgcac gtgctggccc cagggaatat ggaagcttcg gaaggtattg 120
 ctctgccctg cctgggtccc ttgctcctat tgcagccaga agtcccaaaa aacctcagaa 180
 cagatatattg cttctagggg atatgagggg aaagcaccgg gaattacat gaggtaatgg 240

atacggctat gcaggtggct tcttgatgac aataaccnt cctcnggagg aagctttttt 300
ttgtttcttc cncagactcn aaatanctga 330

<210> 9278

<211> 537

<212> DNA

<213> Homo sapiens

<400> 9278

ccaatttaaa ttaaacttcc tttaatgaaa taaaaaaca atggtgcatt gcataatatt 60
tgtggtcaca gtataaaaca atacaattag ttcataaac attggatatg gacaaaaata 120
cacaagatcc tttctttgtc tacggaaaat tctgcagatc cttatgtgcc acacttaaaa 180
agaaagtcag cgttttctct tctagggatc tgcacacata tttatcactg anaatttggt 240
caaacagtgg agganaactt acccaaatcc cagttccctt cttcctctgt tgtcatcggt 300
gaagctaaaa aaaagttttc tgaaagtagc aagttgtgta ntattgctta ttattcctgc 360
caaaaaggct cantctttgg ctacacagatg tcngtgacaa aatcatggct gcaggcagtc 420
tgcaaancaa gaaacaaggc ccccggggaa acaaacnaaa gtctgggcag gaaggggccc 480
tctnccaaaa tctccgggan ccccncaa at ggttaaggta aggggggaaa aaacncc 537

<210> 9279

<211> 339

<212> DNA

<213> Homo sapiens

<400> 9279

cctttttaca aaaacatgca tacatacaca gggatatggtg ggtcctaaga aanaacacac 60
acacgcctca ctacacaca cgctcacaca cagcctcac tcacacacat gctcacacac 120
attttccttc ttgaccccag gcctggaccc ccaaaagcct tgaaaacttt gccanancag 180
cctcccctcc tccatgtctg tatcttctct cccacccctt cccctcagt caggctattc 240

ctatgtgggg tgggaatcaa aactatgggtg ggggaagccc ncaaacaaaa aaagggtcccc 300
ccaattgggc antnggccca ggggtcccan gggtatnct 339

<210> 9280

<211> 413

<212> DNA

<213> Homo sapiens

<400> 9280

acatttgta ngttctcacc agcaagaatt ctttgaaaaa tcctgggtctc agattttacc 60
ttaagaactt gccacattca gtacatttag taaagtttct gtcctctatg gtctanctaa 120
cggngtatta agccttgaac aaaaactaaa ggnctctgcta cattcattat acttgcaaag 180
tttttctcca gtataaatta ttgtatgtct tacaagggtt ttaatgctaa ctgaacactc 240
tgccacatta attacatgtg ttagatttct ttccggcatg aaatctctga tgacgtacaa 300
natatgaatt gtcgcggaag naatttgcca cattcattac atttgaaatg tttctctcca 360
gtgtggatcg catgacnana tantgaggct tgaacgcata ctaaaanctt ggc 413

<210> 9281

<211> 452

<212> DNA

<213> Homo sapiens

<400> 9281

cctcganatg aacatcatcc tttaatatgt gccttttcca tttcatcaca aagaatatta 60
aaaagacgtg tacttaaggt ctganattta ataaaattaa taatttttac tgcttcatca 120
aaaacattct taagtcaaac tggcatttta ttgtaagtgc atgggtgtga aatatacaac 180
tgctagtata atttggcacc acttccttgc tttgtgctaa ggncccaaca gtttcacca 240
cctttgcttt ggtaccattg gtgcaaatgt cagcagggtg aaaanacaaa actgtattag 300
tattattata aaaatagttt aaccttgc an atgctctaaa aagatctcgg ggaccactcc 360

cagggatctg caggtnacac ttaaaaaaac cncgtctcta tttgccatat gctgccaaact 420
gtnactcntt tatcccaaaa tttnttcctg aa 452

<210> 9282

<211> 381

<212> DNA

<213> Homo sapiens

<400> 9282

gcagaaacat gtactttaat tcacattttc tagattctgg tgggtacaac agtaaattat 60
ttggaattct gttcaaaatc aaagctgcac ctgtagatat tccttaaaat acagtacaca 120
tagatttggt tgtgtgtttt tttaccaa atattccacg ataccatgca cctaattctgt 180
gtattttggt gantagctat ggtttctgca ggtacctcag tttgcaaact actgaaaggt 240
ttactgtgaa ctgttcccaa attttcagct gaaggcaatg ctgatnaaaa tcaaaataac 300
tgtcctttct tatatacagt ggcacatagg cnaagttgaa aaaacatggc aaantttcat 360
atacttacng anattacaaa t 381

<210> 9283

<211> 447

<212> DNA

<213> Homo sapiens

<400> 9283

ccaaaaccac acagcttccc tttttattga tgctcaagaa gtgaacttta aatgacattt 60
cataagcaaa acacaaatga aaacacctaa tgtgcatgta tagtatatgt aaacatacat 120
agtatatgga ctcaatcatc ctcatctaaa tataaaaaga acaactgggt ctttgacctc 180
aaaaataaat tcaatgttgg cattactgtt ttttaacttac agtgttttat atttaacagg 240
aaaaattatg aataaccaag tttgggtgtg tcatggattt catgttaagg tataaatana 300
gtttttaaga aataatctgt ntaataaaat aantttactt ttgaatcgca gtacagtcac 360

tnccttcaat caataaaaat atcccttgat tacaaagcac cttatittgc aaatgtnttc 420
aggaaaatan ctctancatn ttgaaat 447

<210> 9284

<211> 361

<212> DNA

<213> Homo sapiens

<400> 9284

cctcaggacc caataaattt tatttcaggt ggggataagg gacaagcaat gtnaaaacag 60
ggaaggaaan aaggaagtct ctatnttctg aaggactgcc taccctactg ttganagtgc 120
cacattctgc ccttttagca attttaatta atttttacta ggactttggt aacaccacan 180
aaaccctgtg gcttcctggt aaaatgactg tggtacatgc cttatittta ttaaagtgga 240
atttaacaaa tacttttatt attttgaagc atttactna ttctcggtgg aagcactaca 300
tcacgaatg ggaaatcnac naatgaaaaa tgaaaaaaa gattatcct tcccagtnag 360
c 361

<210> 9285

<211> 336

<212> DNA

<213> Homo sapiens

<400> 9285

actttttgaa agtttcattt aggtgctatc atttaaaaaa tcagaagata tcacttaaga 60
atccagcatt ctagtttctt tcgaaaaatc agaagatctg gcaacactag gccacattc 120
cggcattggca acaaccagct anagcggtgc tggctgtgcc ccctctgtgg ggcttgtgct 180
ctggtttctg aagtcctaac cctcaccagg cccaactgcc acctacgcca gctgcatggc 240
ccctacactg tgtctctgca cgaggcagcc cancangaag gaacaanagt ggggggtgatg 300
agaggttgct ctgttcagcc ctccccacta cccaca 336

<210> 9286

<211> 519

<212> DNA

<213> Homo sapiens

<400> 9286

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canaatacat ttctttctta atctttgtga gtacatacca ccatactggt ggcaatggcg   60
gtgagagcct ctgtggacca ggggaagctg tgggtgtgagt tccatgctag ctctataagc  120
caggctctgg ggcagcatcc aagacgctct gtattanata ctgaccagtc tcatgtgcca  180
ctggtgagga ngaanacaac gtgcttttcc caaagggcga tgatctcccc aaatgatgac  240
ccttctcagg aggcagganc gctttcccgg aataaccttt tggctcctta ttcagctgct  300
gcagcanata ctcattaatt accaccaagg atctctgact ttcatggaan aatggcaact  360
gtcttctccc gctttttcca nctnggcaan ctcttggttc caggcaaccc ccctgcatgg  420
tcacctgttg gtttttgtcc aaaaatcanc ataattnttt gactgttgcc cctcccaatt  480
gaaatggcnc cctnccncc actgttgaat ttttctga   519

```

<210> 9287

<211> 452

<212> DNA

<213> Homo sapiens

<400> 9287

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ccattcanaa agcctatact tggcctgttc tgggcctgat tanaaatcat aataccttct   60
caacgcttca acnacttgct gttaatacgg ggaaaacaca cccccaagc cctgcgtgtg  120
tcgcacaggc atgctgcctt ggcgatgctt tatggaactt ttttaaaact acgtctgcaa  180
tgtctgcccc ttaaaaaana aaagctgatg ggcagcaaac tgcagccatt tctccatctt  240
ccttcgcttt cccaccccca tcctgggcag ctttcccctc cccccaatct cctggagggt  300
gtggcattaa gctctgcagt tgtgtgcaca ttcaagtgtt tatggcaaaa actggggaaa  360

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aaanancaaa ttgtttccaa gctaganctc ccatgttgca actttgcttt anaaaaanact 420
tccatctggg gaaagctcat attctgatga aa 452

<210> 9288

<211> 483

<212> DNA

<213> Homo sapiens

<400> 9288

ctctttcctt tctttctggc tctttttcac ccaggctgga gtgcaatggc aagattatag 60
ctcactgcag cctcaaactc ctgggcccaa gagatccttc cgtttcagcc tcttgagtag 120
ttgggaccac aggtatatgc caccacgcat ggctacattt gttttgtttt gttttgttta 180
agagaaggat gtctcactag gtttctcagg cctgtctaga actcctggac tcaagccatc 240
ttcccacagt ctcccaaact gctgggatta cagggtgtgag ctactgcacc aggcagggtt 300
tttgtctttc tgtgagggaa atgtgggaga gacagggaga tgttttctat ttttggcctc 360
tgcaagcttt aatatatttt gctagaagct gtttttagtgt cttgagtact ataatgatga 420
ctgtttacac atagtctctt tagtaatcta aatgtctatg tgaaataana ntccanttgt 480
gcc 483

<210> 9289

<211> 432

<212> DNA

<213> Homo sapiens

<400> 9289

atttatattg agacacagtc ttgctttgtc acccaggctg gagtgcagtg cagtggcatg 60
atctcggctc actgcaacct ccacctccag ggttcaagtg attctcctgc ctcagcctcc 120
tgagtagctg ggactacaga tgcccggcac taagcctggc taatttttgt atttttagta 180
nanacgggggt ttcacatgt tgaccaggct gttctagatc ttctgacctc atgatccgct 240

cgcccttgccc tcccaaagtg ctgggattac aggtgtgagc cactgcaccc agcctaaaag 300
tcattttaat ttgtaagata tgtttactgt tttaganana canaagctaa cttttcattt 360
tcaaggactg ctgaacaatc atccatgaat tcttgaaatt gaataacang aaactgttnc 420
ttgtttttcc aa 432

<210> 9290

<211> 499

<212> DNA

<213> Homo sapiens

<400> 9290

aaacaaatta actttattac attgctactt caacttcagt ccttacattg atttgttttt 60
taaaaaatac cagtttgaaa cacattactg aaagtgagtg tacacaataa atagaaaata 120
gggatgcata gtgctggana cattcaacca acttatcttc atctgttgcc tactgttgta 180
gacaaaattt gacacacaat tagcatcact gaaagagcag ccaaactacc tcggaaaaag 240
tggcaaaacta ctggaaaagt agcttaaagc tctggaccac tcaccnnna aaaaaaaaag 300
aagaaaatnc cctgtttatc tgggagctag cctcattatg gcaatgaaat ttatctacta 360
gtcataanaa caatttttaa aatatcaaaa ntccaggga ccttcctaa cagtttttgt 420
ttttgttttt ggaaacaaat cccctctgt tgcccaggt ggantgcaca ggggnatntt 480
ggntaactgc anccccccc 499

<210> 9291

<211> 414

<212> DNA

<213> Homo sapiens

<400> 9291

aattcaatat ttattatag tccacgtata aagataattt tcatgagggt tacatgatgg 60
atagctagca aaagaaatat gctagcacag ggtggtaact gccaaactaag catgcactga 120

accaacagac tacttcagta agtccttgat tattgccagc ttttctataa tgttcaggtt 180
 ctcaaaggtc actgaatitt ataattatct ccaaacaatt ttcttcatgg tcatttaagc 240
 tttgtctaaa cagctgggtg tgttgccaag cgacatcacc atctcctctg ctttaattctg 300
 ctccaaaaat aacttcagtg gcaccagaaa aaatcancat aggantgaaa actgttatch 360
 cctgtcagtt ctacttgtgc tgtatcaa atcgcaatttcc atnctnctgt tcca 414

<210> 9292

<211> 521

<212> DNA

<213> Homo sapiens

<400> 9292

ccagtgccta tgacattctt tattcaattc acatagaaaa gcatgcagta ttaatgtnaa 60
 acagtacaat attaatgtna aatgttcagt gcacattaaa cagcatacaa acccattttt 120
 aaagacctat ataggnatac caaatacgtt tagaacaata cactttttca nagecctaat 180
 taaaaattgt gcttacctct tacctatctt caccctctca acactcttca cagaaaagtt 240
 ttgtcctaca taaaanatat tctatcagcc aactgaaacc tctttttctt aagtatggaa 300
 aacacagcaa gcaaaaatgc taccatgcat agtttccaca aagaacagga acatgcaaac 360
 aagaaacata ctactcaaaa gaaaactccc ctggaatgca agtggatcaa gaacttggcg 420
 atgaagctct ttcaaacctg ttacatctgg aacaatgaan ctatgangtt ttaggtccnc 480
 taaaacccaa gtggtccnag gcctccttcc ntagtatggc c 521

<210> 9293

<211> 465

<212> DNA

<213> Homo sapiens

<400> 9293

aatgggcatt gtgaatgaaa atatgtaatg tcaaccttta ctttatggta tcttaggttt 60

gtctttcttcc ccttcatagt tttccctttt gaggataacc cttcaagctc aaaagggcac 120
 aaaagctaaa acgttattca cgtncaaaat accaagtata tagctgttct gcagtttgat 180
 acagaacaaa agaaaataac ttttctaatt aaatccctca ttctgtactt aggccagact 240
 ccatccccac tacagtttta cttgtattaa caggttaaga ncaatctagg aacatttggc 300
 aaacaagtac attttttaca tggaaaaaac tcaatcaaca tcaccattct ctggtacaag 360
 aaatacaaaa cacatttcct ttaaaaaatc ctcccagtg cgaagtntct tctaagcttc 420
 ccanantatg tcctaagctt tataaataat aaatctttca nanat 465

<210> 9294

<211> 557

<212> DNA

<213> Homo sapiens

<400> 9294

attttttaaa gctcatgtgc accagaattg agaatcatag aactagaaaa ttactgaact 60
 ggaacacaat ttcataataa gtttccacta tcataacaga gttgaccagt tattcagatt 120
 aatccatgta aaacctgata acccataaac ctttttctct tggactataa actcatagaa 180
 ttaaacaagc acatcctttt acttcttggg ggggaggccc tcttcattga actttganag 240
 gctcaggtca ctaccacaca tggaaaccta agagtaggag ttcgggtagt atggctcaat 300
 tactgctgag ttaccacttt tgtcctgctt ggccaaaagc gctaaatgga agagtagatg 360
 aaaaagacac aatgcatata tttttcattt ttcaaatac ccttttactg ttcacatttt 420
 aaatggagac aaacaccccg gaaaacnaag aacacttatt tgccaaatcc ttttcccaac 480
 nttaagaccc ctttgattcc ctccattact cccaaatggt tgttttccna aaattccnnt 540
 tccttacaaa tcctgan 557

<210> 9295

<211> 592

<212> DNA

<213> Homo sapiens

<400> 9295

```

gaaaggcatc tatatataaa atctttatta caggcagtat tgggccatac actaacacaa   60
taccaacagt acagggttaa tctttcaaaa tcatcattta aacagcaaaa gaccaagaaa  120
taaaatttga gtcaattatt tttcaaaata ttctcaatgc acattatcct taattccctt  180
attatagtga aacatacaaa tacagaaaaa taccctattt aacaaatact agtggttaa  240
ggttatttgg cttaaaatct gagttaagaa aatccttttt agcaacctac atacagataa  300
gtagcaaact ttattatatt aaacaaattc attctgctaa aacatgtaaa gaatttcac  360
catcatgtat tctgatccca gtacaagtgt ttattctctt accgtcacga ttcttatatg  420
aaggaccaac tcaaagannt gtcctagata taaccttacc ctctcccca cacttccat  480
ccaaaantct gttcaacaga tggcaaccgg gttgcatcac ttcaccatct gatgccattg  540
gtcccgana acgtggccag gcctgtgaaa naccattcc nactacngtg gg           592

```

<210> 9296

<211> 487

<212> DNA

<213> Homo sapiens

<400> 9296

```

caaagccgcg caatcatctg cattttattt gcacctcatt tgcaagttgt taatttgcaa   60
ctctgtcctt tccactccag gttccttctc tcccatcacc cctcaaattc cccagtggcc  120
cagnaaaaaa tatcttggtc ttgccaagg tanactcagc cttgtcagca ggcctgtcct  180
gtgttctcag gggaggcctt tacccaaggc cacaacaaca gcaggaatcc cgagtaanac  240
gccaccttga cggcagggaa ggctggatct ttacacaggg caaaactgat ttgatnaggt  300
gaacagtaag gtgagcaaan gtgggaaagg ccagtgggtg aatgcaggaa cagcaccagn  360
anctagaacc caactctggc ctgtgggctg tctcccggtc ctcaaaagcg gganngggtt  420
ccccaccac caccactgtt tccccattat ttcttgcat ctccaaacnc nggaaaaacc  480
caatncc                                           487

```

<210> 9297

<211> 305

<212> DNA

<213> Homo sapiens

<400> 9297

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acttcctaa aggaacctgt gatgcaaggc ggaataaaac ccctgattca tgtaagaagg 60
ctgatgtaga gcagtgggtc tcagcccagg gagcccagta gattcacctg gggagctcaa 120
aaccggctgt gtggggctgc agcccaggcc aagaaactca gcatctccgg catagtgaga 180
agggggctct gtgttgagga gtacaattct ggattcaaata ctgtcaccta gtgggtatgt 240
gaccttgagc ancttctaaa ccgttttgaa cataatctca tctgtgacat gaaggnttac 300
tcnct 305
```

<210> 9298

<211> 442

<212> DNA

<213> Homo sapiens

<400> 9298

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acaatagaaa aatattgttc actggtttat ttttccaaat gagcatcagg ctattttacaa 60
atacgcagcc ctccaatgac gtgtattaaa atggcaagtc tatcactgtt tgaaatctaa 120
atgaaaacaa atttattaag gcacatttga tctganaatt taactttctg gtataatgac 180
agattcattt cacttttgtc cccaaaacac atgagcacca aaattgtcaa agaacactta 240
atatttagta aaacagtaag gaatataaaa attaaggagg ggaaaaagcg tttccnaaag 300
gaaatctttg gagatcggtt tactgcaaata aaaacagact aaacaccctc ccgatacaca 360
taaataatac taactaacag gtctcaanaa tggcgaacct ctgaacacnn attttaatta 420
atttaanggt tttcccaatn cc 442
```

<210> 9299

<211> 533

<212> DNA

<213> Homo sapiens

<400> 9299

```

gaagaataac aattgagttt tattcttta aggcatctc tgatttacat ganaattgag 60
aaactgagat gtatgatttg tctgttagtc aatttcacac ctttcattc tcataagccc 120
caaattttgc tcagttaagg agcttgcttt aggccacct atgtaagtct gttatactag 180
ctaattgtgc catttgaata gttcaagggt cagctaattgc tctgagcttc atggctccag 240
tataaanaac aaatttaaca aaattaagct gttactgtag ccgaattacc cttctgctcc 300
acacatatgt nttgggatct tgcaggattt ccatagtgcc aattatcaaa ggccttgact 360
acttancatt gctgtattac agatgtncaa actgaggcct gaaaagtcca atttaaagtc 420
ntattgaagg gnccaaaaag gaagcttatt ttggggcttt ggccatttta cctacttatt 480
taaaattgct gcnaaacacc ttttaaactt ttcaaatttt ttgacggttt nna 533

```

<210> 9300

<211> 430

<212> DNA

<213> Homo sapiens

<400> 9300

```

aatcattgag tgttttattg aacaattaag aaatgtntaa ccatttcatt actttacaat 60
agtaaaactg anttgtaact ttttctgtga atatgcgaat ttgtatttga aaganttttag 120
acttgtattg aatgagatgt atcttgacta taaagtgttt tctttttcag tacaaaatat 180
acaaaccagt acatgtttta aacataaata taactgagaa taggttatgc ttctactcaa 240
atgcacttgt ggaaagtacc attcatccgc aaagacactt ttaataagct ttgacaggaa 300
nacaaactcg acagtgttgt cagattttct atttaaaatt acatttatat taaccccnac 360
ctttcatttt agcaaaatgg tttatggntt cntcnacttt ataatttta caaagttaaa 420
cttcnactcc 430

```

<210> 9301

<211> 473

<212> DNA

<213> Homo sapiens

<400> 9301

```

caagttattt ctatagcana catatTTTTg aagtctaccc acccctgagt tcagcaatta   60
tactttgagt gtaaaattat atgcccttaa ttaacaacat gtacaaagct acaaaatgtc  120
atctatacag attaaaaaca attttaaaat attatttacc aattattgat tgaatggttt  180
tactggggta cgtatttcaa acctttcagc caactggctt tcagttttaa gcccaaattg  240
attcatatat tcactgcagg atatttcaaa aagagtgcaa caataaggca ttagtaaaaa  300
taacattgta gtanaaacan attttgcata tgtgaaaagg taattataa aatacattaa  360
tcacttttta aaaagaactt antttagta tcattaactc ncatgggtac tgaaaaactg  420
gacctttcac aatTTTTTTT ttctataaaa anttccanct acctntaagc aaa         473

```

<210> 9302

<211> 482

<212> DNA

<213> Homo sapiens

<400> 9302

```

cagtagcttt tcaagtttat ttaaaaaagc agaacacaca aaaatacata caacacccca   60
gataatgtcc ttacagaat ccagtatgt ncaacagata cagcagancc tgtctgttgg  120
aaggtgggag gccctgcagc cctgtctccc tgcctcctgc tctatcgcca cccccccact  180
gcagcctaca aggttcctaa ggtacttttg gaaaatccta ggcctctgag gaacagtttg  240
aaanactact ttagaaaatc tttcaagact aacgttcaac tctatcctaa attataagat  300
aaagaggttg atgacaaact ggaaatcacc ctcntgcaga aaaaaacaaa caggggtctaa  360
agcacctan ggagaacaca atgttttctc aagcacaag acctcnagct ctgagccccc  420

```

tcctgtntta cctggggaaa tccttaacct tctaggcctt anctncctcc ctntngaatt 480
ta 482

<210> 9303

<211> 538

<212> DNA

<213> Homo sapiens

<400> 9303

cagttgtaaa aaattgacat cattattcta aatgttatgt ggaatcacag gaagaaacat 60
cattgcaatc attattcaaa gtaatattaa agataacata aganatgttt ggtcttaaatt 120
gtcaatttga atgtatagtg tctacaataa tagatcaaag agaaagtaag tataatctgta 180
ataaaaacaa gaaaaaatga gttgcaaata ctgtattcta caatgaaaga anaatgcaga 240
ttaaggataa aacagtcctta ccaactagge cacctttaag gatcattttt cagggtagct 300
aaaaggagta acaataaagc tctacacata taactaaaat gtttgcaatt aatctantcc 360
cagcactttt atttgtagag ttctcaaate aaaagtaaca aataattata cctcngggat 420
tgtaggaat accaattatt ttacaactgc ccctacntgt ttctcctccc tgaccaagtg 480
gcacaaatcc agcctgctgt gtttaataca anccctncct tncgtcaana actccttt 538

<210> 9304

<211> 480

<212> DNA

<213> Homo sapiens

<400> 9304

gtattttaata aaatggcaat ttgtaaattc tggatgaatac tcnaaattgt agctaaaaac 60
agctatctga atataggttt aaaacctcna agacacagag ctaagaaata tggaatacat 120
tgtatattgc tttttcaata gagtagacat aaaattgatg acaaattgtt ccaaaccctc 180
aataagaact caaaacatca tactatgccca agctgaatta cagaagggtg tctaagaaag 240

aanacagtgc atcagttatc tctagataaa gagccagtaa aatcaagttg catttgatgt 300
 atacatctta ttgggagtag ttttcagaaa gcaatttccc taaaacaga aaaagcattt 360
 ttttttcta tttcagtctt taacantgtg gtcctccata aaaaaaatg actacttgaa 420
 aataanaagt ttttctacc ttaaaacttt nttanggggg ttnaaatagg aaattgtccc 480

<210> 9305

<211> 513

<212> DNA

<213> Homo sapiens

<400> 9305

cgattcaatt catatcttat ttagtacatg gctgatgttt cctgtgaatt tgtgaacatc 60
 agtgggaaaa atacatggca ataaagtaaa attataaaat acagtanaan attatgggtt 120
 gaggtaatac caatttggat agatttttagc aagtaaaaaa tatacaaatg aagtatattt 180
 atatacccaa gtcattaaac agccctttat ttcttgagct ataattttaa tgagggggaat 240
 gtgaactaag acctataagc acatagctat gtatagtctt cattgtgggtt attacctttg 300
 atggagactt gtttttcttt taagcctttt tctccctgtt ttgatccttg aagtccatgt 360
 catctcttga tagtactgca gacagctggg tctgtgccaa atgctgtagt agatgtcatg 420
 atcctttccc tctttatcat tccattcact tttggattca tgtnttcac aaatattatc 480
 natatttaca gatggcncag atgaactccc tcc 513

<210> 9306

<211> 563

<212> DNA

<213> Homo sapiens

<400> 9306

aatgaaaaga aacatttatt tacactttgt acatatcgat tccaacaaac aataaaaggc 60
 ctacacatca gtataatcat aatatatgcg aacttccgat cttctcacac tttgcagtga 120

tctgatgctt tcactcctgg ttctgatatt tgattttttg aacagccttc ttgaaaatga 180
 cctacacatg aaaaagtaaa ttattggatc caggcaaaca ttacacgcag acaagaaaag 240
 tgtaatttct ttgcagtaat ataggatttt ttgtgcagat tcatctaaaa gcctgtctaa 300
 gtgactaaaa gtaaaaggaa ttctgcacaa gtgatatgg agaaagcagg tnaaaaacac 360
 agccacaaca accctgatgc tctggttatg ttttcgcttt cggcttgact gacttatgaa 420
 ttgcctgctg gatttgtgga tgtnctggat atggctatgt tacatccgat cagaatccca 480
 ccacggcaca aacaancact gttcccatag gttactgccg tatgcccttt gancccaaaa 540
 ggacttttaa tttttgaacn atc 563

<210> 9307

<211> 510

<212> DNA

<213> Homo sapiens

<400> 9307

aaatttgaga cggagcctcg ctgtcaccca ggctggagtg caatggcacg atctcggctc 60
 actgcaacct ccgcctcctg ggttcaagtg attctcctgg ctcagcctct cgantagctg 120
 ggattacggg tgcccaccac catgcccagc taattcttgt atttttagta aaaatgggggt 180
 ttcaccaggt tggccaggct ggtctcaaac tcctggcctc aaatgatcca cctgcctcag 240
 cctcccaaag tgctgggatt ataggcatga nccacagcgc cagcccacct cacagattta 300
 ctganattaa atgaaaaaca tcctataaat agtttgtccc aggcaccatc taagcacaaa 360
 atacagtggg ggataaaaca aaaaacaaat ccctgccttc ctggaactga aattccaagg 420
 cgttaaagtg gaaaaagcaa aatcaaaaaa ttagctntca attcgttttt aaaaccncac 480
 cccantgggt gccaacatt ggcattttcc 510

<210> 9308

<211> 437

<212> DNA

<213> Homo sapiens

<400> 9308

```

gagatggagt cttgctctgt tgcccaggct ggantgcagt ggcataatct tggctcactg   60
caacctctgc ctctggggt caagaaattc tcctgcctca gcctcccagg tagctgggac  120
tataggcgcg caccaccaca cctgtctaatt ttttgtatit ttagtaaana tgggggtttca  180
cgatgttggc caggctggtc tctaactcct gacctcgtga gctgcccgcc ttggcctccc  240
aaagtgcctg gattacaggc gtgagccacc gcgcccggcc aacacctctt aagggtcaag  300
tnctgattta agacctgggg gtccatcaag aatgacaaat gctcccggct ctggggcggt  360
tcccggccaa tggaagaaaa accacttgn aaaaaaacat gctcaactcn aacaggacct  420
gaaccatnaa aaaaaat                                     437

```

<210> 9309

<211> 556

<212> DNA

<213> Homo sapiens

<400> 9309

```

ggaacaanan attttaactt tttatggcaa aatttactgg tgtcaattgt attttaattg   60
aaagggtcaac accatgttgc tgtctctatt ccaactgaaca aaaatgactt tgaaatanag  120
gaaaanaata gccagtttta actggcgana attttttaaa atcacatttt cacaacacta  180
caacatatgg anatgtinnac agttagtctt taacacanan tgctgtagta ttttatactg  240
tggtgcttgg ggaaatattc ctantgaata accggcagtc tgtgcaggaa ccancagtcc  300
acattctag gtntaaatat ggaggaaaan cttctgctcc cgctcaana aaagtggact  360
ccnaagggt acctgtctca ttttaaacc tataccatga aaaccaattc ccanttccta  420
cactctgttc taccttcata attttncctt cacatatttc tttccgccag ccatccaggc  480
tcctgccant tattaacttc cncaaaataa tccatttnc cctcctccc cctnanaaag  540
gactnctttt aanttt                                     556

```

<210> 9310

<211> 513

<212> DNA

<213> Homo sapiens

<400> 9310

```

ctggctaatt ttgtttttta atgagaaaca tctgagttgt acatatcaca aacagcttca   60
agtttctgta ccaacccccccc gccccccacc cgcgcgtggc caaacagtta aaacccaaag  120
caaagcatca ctttggatgt gaaaaagtct tanaaaatta acttacaaaa acatccctat  180
caagtcggta gtttggcatt tactttacat tagtcaaaag ctccagctaa aatctaattt  240
ttttaaaaaa aaatcgaagt ttacattatt catacagatt gggcattggt aaaaaatatg  300
caciaataac cacatccatg caatataatt tctttaaaaa tttaaagcna tataaaagag  360
caganctagg tncatgaacag aacatttttg tgtataaccg gcagctcaaa attgccagct  420
gattggaatt aaactgaatc taacgtttta aatatgaatg atgtttcctt ccactaangg  480
tgcccatnat ttctgaaaca ttccagggtg aat                                     513

```

<210> 9311

<211> 458

<212> DNA

<213> Homo sapiens

<400> 9311

```

acatttgcct gggtttttatt gaggtagtct ctcacgacaa aatcatgaat attacactga   60
aaggnttatt acattatctt tgtgtagtta ctctcctgta taaaccctgt gatgttccgg  120
ttttgatgcc tgggtaaaag ctttagcatg cacgttacat ttgtatggtt tcatcaaaaa  180
agtttttgat gcctagttag actttggcct gcggaaaatc tctatcacat ataattatta  240
taaagtctct ttagtatgga ttctctgatg ttgatgaatg tttgaagtca taatggtttc  300
ccactcncag tgtttttggt tctctcaagc atgaattttt gcaatattgt acaatgtgag  360
aattgtgcca naaanaactt gccacattca ttacatttgt tagggttctc accancaaaa  420
aatcctttga aaaatcctgg tctcaaattt taccttaa                                     458

```

<210> 9312

<211> 464

<212> DNA

<213> Homo sapiens

<400> 9312

```

ggtaatgaca gggctcttgct gtgttgccca ggctggctctt gaattcctgg tctcaagggg   60
atccaaggaa tccctcccact tcggcctacc aaagtgtctga natttcaggc gtgagctact  120
gcaccagacc agtcacttac aagtgtgtct gatttccaca tatttgtgag tttcccaact  180
tttcattggt ttctaacttc atcccatgtg gtcagagggc atgctttgca tgatttcagt  240
ctacttatat ttattaaggc ttgttttatg ctttaactta tgacctatct tggagatggt  300
tcatatgcac tcnaaaaaaa tatgtattct gatgttgggt ggaaagttct atanatgtct  360
tttaggtcaa tttgccttat aatgttggtc aagtcttcta tttcctgggt tatctnctgt  420
ctaggtgctc tattattgaa aaaagggggt ttnaatatcc canc                        464

```

<210> 9313

<211> 524

<212> DNA

<213> Homo sapiens

<400> 9313

```

aattggaatc agacatttaa tggcataaaa acattgcata tatggctttg ctgttccgaa   60
tgtcatgaac ttaaaatcca aatatgacat aagcagtttt aagacttatt ttggccagcc  120
tccccaatcc caaaggagat taaaagtaa taatgtaaaa aagttaaggt caaggtgttt  180
taaaatcaac atctcagcta atgactaacc ctttgtttcc tggggacttc tgctctactg  240
tgaaaactgc tgancctaac ccgctgttga acaactgggt agttattagt tccctgggtg  300
attgtccctg aagttaagcc atgctctggg gacacatgag gcactttaat tggggtagtt  360
actttttcca gggttgggtac aatgtttggc tctcaaaaac aaggtaaaca gtttacagtc  420

```

aaaaagaatg ctctgtgaat gtnnccctt gggatcaagg gttgaaatct taaaattttc 480
cccctaacct ccttttcnag tttcccaaaa aaattttaaa gggt 524

<210> 9314

<211> 485

<212> DNA

<213> Homo sapiens

<400> 9314

gtttgtcct ccaaattttc ctgtagcaaa atgaaattgt tgtctcctat cagattatag 60
caatcctggc attattataa aagatttccc ttaactaatt ggaactaaga agtgatatgt 120
ttaaactga gatatttcta gactgacata aaaagtaaag tttgaattt ggctatatca 180
cttaacccat aaacaagctt agtacacctt acttcagatt ccttatgaat aaattctgac 240
tttgatagaa aaattaacac aagtttattg tatgttttgt gtgtcagaaa ttgtgctaca 300
tgatagaaaa cacacagaaa cataagattc tcataaggnt aaggactatg aaatataagg 360
aatcaataa aattagccaa aatgcctcat gaaaatgcaa atcatgtttt aaatgctaaa 420
gagactcata ttaactgtat agaactttat attcccacnc nttatgaaan tgaaccacca 480
gtgaa 485

<210> 9315

<211> 469

<212> DNA

<213> Homo sapiens

<400> 9315

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ctgacatgga attaaaacta aaatgggtcaa ataccatgat aatagaaagc aaccagccaa 180
catagctagg tcttctctta aatttgctga tcaacattag cagtagttac ctttaataata 240

aattattcat tttaaaatca gtagtaactt tagacaattc ataaataagt gtgctctgtg 300
 caatttacac gtttaatatc ctgtggatac taaaagcttg tatattgtca gatttgcaca 360
 ttattacttt atcaaaaaca gtaagctttc ccaaagatga agctggggaa acttgaaaan 420
 anattctaaa gggctctctgg anaattatcc aagctctgcc tgctttaca 469

<210> 9316

<211> 332

<212> DNA

<213> Homo sapiens

<400> 9316

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 tattttatgc cctcaaaaact gaaccttaag gtananacaa ttgctccccg ggccaaacac 180
 agatccctcc aacccttcac tgtaccttan gaaagctggg gtaactaca gattcaacaa 240
 aatctcaata agaaaatccc aaaaaccttc cccaatgccc tgtggtttgg cctgaacata 300
 nggaaaatgg actgctgggt ggctacnaa ca 332

<210> 9317

<211> 495

<212> DNA

<213> Homo sapiens

<400> 9317

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 agagtcactt gtggagggga cggaagatga cctggctgat ctggccaggg atggtgtaga 180
 agaccaggag gaggaagacg gtgagcagca ccagtagcag cagcaccagg gtgcgccagt 240
 accggcgcca gatgaagaag acaaaggtct tcagcgggtt cacaaccag ttgaaggaag 300

ttttggggcg gctgggtttc tccagaggct ctggctgctt ccgccccttc cccactggcc 360
 gtttctcggc ctctccaca gtcagcagct caaactctgc ctccaccttg cccgtgagga 420
 tgtncnctt gccacccatn tctgtgaact ccangtctnc tggccggncc ttcctcctcc 480
 tctgctttcg cttct 495

<210> 9318

<211> 336

<212> DNA

<213> Homo sapiens

<400> 9318

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 cagtcatect tacaaatcgt agttttacc cagtgataag tttgtctaac ctccagcctg 180
 cgctgtttct caggatcttc ctcatcctg attcgtcct tctctgctct tttttctcc 240
 tcccgccgan actgtgctgc ttctgtctt tgcacatgtg tcagtttcaa gaaattctct 300
 tctactcggg nacggtctt atctgctttt tgtttg 336

<210> 9319

<211> 437

<212> DNA

<213> Homo sapiens

<400> 9319

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 tacaggtgcg tgccaccaca cttggtaaat ttttttttt ttttttttt tgaaatggag 180
 tctcactctg ttgccaggc tggantgcaa tggatcaatc tcggctcact ataacttctg 240
 cccccgggtt caagcgattc tccccgcctc agcctcctga gtnnctggga ttataggcac 300

ctgccaccac atctggctaa tttttgtatt tttagtaaaa anaaggtttc atcaccttgg 360
gcaagttggc cttgaacttc tgaactccag gtgatcctcc tgcctcance tcccaaattg 420
ttgggattac cacttna 437

<210> 9320

<211> 477

<212> DNA

<213> Homo sapiens

<400> 9320

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caaaagttac agaanaacaca gctcaggctt gtaggtttac aggcaatana cactgtaatg 180
acagtgtttt ttttttttgt cagtacttct atatgaatta cgtttcatct tttatttgta 240
tatccattca catgctacat aatgttccact cttgtaaact cccaacacat tccagttggc 300
tccattaact tcagggagtt ctgtagcacc tctgattgtt aataggatac acaactccca 360
taggggaata ttatctcccc actgagccaa gctaactgtg agangtatca ccttcccaac 420
cagccttctt ccgccccctt ctgangcatc gagctgcagc tccaggtnga caatcca 477

<210> 9321

<211> 429

<212> DNA

<213> Homo sapiens

<400> 9321

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ttcagtatgc atttctaaca aataggatc tttaaaaaaa cataacaaca atatcatatc 120
acacctatca agattaacaa taactcctca atgtcagtc atatccattt aaactctttg 180
taatggagga acatattcct ttaaataaa gctttagtaa tcacacaatt taagtgggaat 240

aaggtgaagg gaangagaga ggcagagtcc tgcccttcac cttgtccca gaagtttgaa 300
aagtttgaaa gtcgctatit taccctgac agttcgaaag tcgctatitit acccctgacc 360
ctccttttgc atcctgagaa aactgaagg tccananaaa aaacggtaaa tggtaaggt 420
cataaanca 429

<210> 9322

<211> 455

<212> DNA

<213> Homo sapiens

<400> 9322

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tacctgtant cccagctact caggaggctg aggcaggaa attgcttgag cacagacgtt 180
caaggttaca gtaagctacg atggcaccat tgcgtccag cctgagcaac agagcaagat 240
gttttctcag tgcctttctg cttctccagg aagttgtacc cgtcagcacc tgcgtagggc 300
tttgtgtcc aaacctgac aggtaaaaa attcctgtag aataaancca gaccagctgg 360
ctttgaanan aaacccccag ttgggctgc gtttgcctcc tctccttttc tatgaagacc 420
gaagctttgt cccttgatcg tcaaccgtga natgc 455

<210> 9323

<211> 492

<212> DNA

<213> Homo sapiens

<400> 9323

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ggatgtttac ganaaataaa aatactagta ttctggcatc cnttgggtnc aggccnttt 120
atatttatag atgtctaca tgactcataa aagtnaaatc nataaaggct attaatitgt 180

atttcaacct gaatttgaga aaccaatgaa nattaatcat ttatttggga tctagatcca 240
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 cccaaacatt tcagcatctg taaaaggtga tctatttagc atctgtaata agtgatttat 360
 agttatatat gcnaaataaa ggttgacaca gctggatcct anaaactcnn attttatnaa 420
 tttaaataa attaanTTTT tatgccnaa aacaaaaccg gatcttggat tttttttaan 480
 ttttgaaatc cc 492

<210> 9324

<211> 497

<212> DNA

<213> Homo sapiens

<400> 9324

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 tctgttgata ccacaaccaa tgcttttccc acganactat acatagatat actaaagaca 180
 atactttttt tttttttgac attacagcac acttcctaaa tcatctgaaa tcctgaggca 240
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 tcctaattaa tctctaacac aacaagctat gaattataga atactatate ttcctactgc 420
 tctccctgat cttattccnc cccanaattc taattgaatg tnaaaagggt cntntccnat 480
 ccttggccac ttggcnt 497

<210> 9325

<211> 457

<212> DNA

<213> Homo sapiens

<400> 9325

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ccatgggcac aatacathtt gtaaattcta atttgtattc nntgtcttgg ggtagggag 120
gaatgattaa nataaagaaa tagatcagta atctctctac ttcactaana tgagggaagg 180
gaaaagtgt atgtacaggt caaaataatg ctgaaatgca naatgctttt canaantatg 240
ccattagacc ttcaaatgtg ctgtaggtgc taatagtact tgtctaaca gaaaatattg 300
agtcattgtc ttttgaagg tttaaactgt tttatgtccc aaacacatcc ctaccaggcg 360
tantaagant aatccattaa tgttttcnnt gattaaaagt tgaaattata naatattgtg 420
gaaatntntt tttgcattaa cttttatttt aatcccc 457

<210> 9326

<211> 378

<212> DNA

<213> Homo sapiens

<400> 9326

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gaaacttaca atcatggcag acagtgaana ngaacaaggc atcttcacaa ggtggcagga 120
aggagaatga acacaggagg aactatcaaa cttataaaat catcagatct cgtgagaact 180
atcacaagaa cagcatgggg gaaccgcccc caanatccaa ttacctccac ctgatctctc 240
ccttgatgtg gggattatag ggattacaat tcnagatgat attttaggtg ggggcacagc 300
taaaccntat cctacnagga atgactgaaa ctaaagatac taatttcctt tcccttggtt 360
ggccaagctg tcntcttc 378

<210> 9327

<211> 451

<212> DNA

<213> Homo sapiens

<400> 9327

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 ggantagtgg tggtagacca atgtgaaaat tgtgccctgt tcactacana aacctgagtt 120
 tggttcctaa gtctagttct ncctgtttga tatttgtgtt acttttaaag cgtcagcagt 180
 ttgtcccagc tatgatgtgg taataaaaga ttcaaaagga ttttcttcac aagttctatg 240
 attaaaagct taattaaaag caaatttctt ttttttttta attgtacttt aagttctggg 300
 gtacatgtgc aaaacatgca ggttacatan gtatacacat gccatgggtgg cttgctgcat 360
 ccatcaaccc atgatctaca ttantttatt ctccaatgc catccctctc ctagccccc 420
 accctganag gccnaatgtg tgatgttccc c 451

<210> 9328

<211> 265

<212> DNA

<213> Homo sapiens

<400> 9328

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 ccatctttta atttttttga aaaattcctg acattacaga actaaactga aatgtnttaa 120
 tattccactc ttacatttcc atgacaaaca gaaaaattca tgagccaaaa aaaaaaaacc 180
 naaaaaaaaa aaaaaccagg ganaagctta taaaactaaa tatggatctc agcatcaaca 240
 gctgaacana aaaaggaatt aaaac 265

<210> 9329

<211> 397

<212> DNA

<213> Homo sapiens

<400> 9329

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 aataccaagt tttcagctaa ttgtttgctt aaagaatcac agaacttaca ttcaanattt 120

catttacata caaaattcac ttgaggcttt ctggttgaaa ctttcaatag ctttaaaaat 180
 tatattctct aatitttaaa tcacttgagc ttttaagctca tttganaaac ttttttctcc 240
 ttcanagtac cgtattcatt tatcacagca aaaacgcacc tttaaagggt tgtttttggt 300
 atggttgctg tttgttcccn tatgtttgtt tgtatgcntg tttttaagt atgatactga 360
 aggcnгааac aatctgaatt ccatattccg gttcaca 397

<210> 9330

<211> 556

<212> DNA

<213> Homo sapiens

<400> 9330

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 ntacaggcat gcgccaacac accccgttaa tttttagt tttagtaaana cgggggtttct 180
 ccatattggt caggctggtc tcgaactcca ggtcaggaan atctcagggt atcttcccgt 240
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 cactatctcc aagganaaaa aaatctgaat tnccatttta atcccnct tccncttaa 480
 ttgggaaaaa atacnataac tattccttct cntttaactt caaatcttct cccgggtccc 540
 tccaatcttc ccnnn 556

<210> 9331

<211> 336

<212> DNA

<213> Homo sapiens

<400> 9331

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 tcaaactgta tcttcttttg atggaattaa gatgtaactg tatagtttta agataaataa 180
 atgggaagtt ggtccaacta agatgacagc agatatatta catgcaggat ttaatatattt 240
 ctaattctct cttttaaaaa aaangatgct gttggattgg gaaaaaaaaa agtctaaaaa 300
 gaaccanat tcaatatata aaaatgtccc ncaata 336

<210> 9332

<211> 446

<212> DNA

<213> Homo sapiens

<400> 9332

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 cctacttttc aactttctgt tagagctcta agttatttta cttagtacga ggtagtgttt 120
 ctggcatcaa aagataaatt ttaaattcct gctttttcaa atttgcgtat gatttttgca 180
 tatgatttgt ttcagtgggt tcttgggtgtg ctttattttg ttgcaggagagg aggctgaagg 240
 ctgggaaaaa aaaggaggct gaactgggaa gataataact ggtgacaata natgtgagtt 300
 aaactttagg aaaaaggatt cccttttttt aaaaaaaatc aataacctcaa aancagcttt 360
 gggacaagaa aacccaaagt ggnctgcttt tcccaccag gancctatta tcccattctg 420
 tgccactgaa ttaggaaact gactgt 446

<210> 9333

<211> 341

<212> DNA

<213> Homo sapiens

<400> 9333

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tggaccctgg gaacaaggan tccagangtt gcccaaagan tcgcaaagtg catcaggaaa 120
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 aaatcttccc aggttgctat tggattttgc atgttcgaac ctccatcaga ngatagactt 240
 aggcatatgg tttgcccngt gaattgaaaa atctccanan tttatgaatt gaanaatggg 300
 atgaatacca tacacngagc accgaacaaa ccatcnaat c 341

<210> 9334

<211> 468

<212> DNA

<213> Homo sapiens

<400> 9334

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 cgcccggcca cacaaggcat tttggcatta acgtatcaag tcttaaaaat ctgtatatca 180
 tttgtccccc aaattttatt tctagggatc tgatgcaaag aaatagatca aatatataaa 240
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 cacataaaca tagtgggcca ctgcacattt atttaaaaaa aaagattata naaacttgga 360
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<210> 9335

<211> 499

<212> DNA

<213> Homo sapiens

<400> 9335

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tacagtatca atatagacta tcttgagaaa ataggtgtga aacagaactt ctctatcatt 180
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 gaantctaata ccttctaata 499

<210> 9336

<211> 365

<212> DNA

<213> Homo sapiens

<400> 9336

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 caggaaagtt gcccnatagc ctgtcccatc tgagggtcct ttacatgatt agatactcaa 180
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 aanggagctg ggagcagtcc ccctgcctcc attacttttt tagctttcac atatgttctt 300
 gacttgatca naaaatcccn aattttaaat gattccccna ctcanccagt tctntnaatn 360
 aagcc 365

<210> 9337

<211> 543

<212> DNA

<213> Homo sapiens

<400> 9337

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 tcaggggtgt caaggangac tctgtgaang caaanactaa actgggatgt gtgcgaaant 240
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 cnn 543

<210> 9338

<211> 527

<212> DNA

<213> Homo sapiens

<400> 9338

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 gatcaagaaa gangacatta ctagcttcca gatgccctat catgtggctt cccagtttag 180
 ttccctcaag gataatgaat attctgacta ttaatgtcat agatcagttt tatcttcttt 240
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 tgaacatggg ctccctacac cgccctgatt tcaatctgaa atccncagga anaatcccc 480
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<210> 9339

<211> 421

<212> DNA

<213> Homo sapiens

<400> 9339

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ctgaatattg taaattacat ttttcttcat aaaagggtaca tactattctg cacttttcca 180
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ttgcctataa gctggaaagt gaacttggtc aatctccatt tacatttttag tgcatttttt 360
gacaattgtc acatttttaa caaaagtnag aaaatgcnta tancctaaa gaatttttcc 420
t 421
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<210> 9340

<211> 579

<212> DNA

<213> Homo sapiens

<400> 9340

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nacttccana aaggaaaggg angangggca aacactgtgc ctaccangtg ctgcctgccc 120
cgtcctgctt cctgcaggan gtgggaaggg anaaaaaacg gacattcgcg ccatcaagta 180
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ctggaagaac actgctggcg gtggggggan tcgcactcaa taagggaccc anctgggggt 480
ccatactgat acattgggga caggcaaaac ctncctttca aanaggaaat taaggtnaaa 540
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<210> 9341

<211> 407

<212> DNA

<213> Homo sapiens

<400> 9341

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ttgcagaaat aaagctctat tgaaacacag ccacctgcat tccttcatct agtaattacc 180
tggctgcttt cgtgctacaa cagctgagtt cagcagcagc aacagagact ataaaagccc 240
acaaagcttg aactattttac tgcattgggcc tttccagaaa aaaatttgat gacacctggt 300
atagggacag anaattagctt gacggttgcc acggtaaaag gtggggaang agctgaccac 360
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<210> 9342

<211> 492

<212> DNA

<213> Homo sapiens

<400> 9342

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tttcgaaaac cattcccagc aacatactgt gctttcatac tttccagtaa tctccagtgc 180
ttctcgaaat gcatggtacg ggtgggaata gcactacact gtcatctag ccttgtagaa 240
taagtcccag tgaactgata ttctgcagaa tcttactgtt tatatactaa agacaaaaggc 300
agctggacca agagtctatc tcttccttca cgtcctacag tgtctttaan aactactgtt 360
acagtttcat catcataaaa ctgtgcatct aaacaactgt agatgcttct tctgactttt 420
tctgttgttg catatgttaa gctccaaatt taataacaat tantccatta ctncagatt 480
gaaaaaatat cn 492

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<210> 9343

<211> 469

<212> DNA

<213> Homo sapiens

<400> 9343

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ggttgtttcc tctaactttg tattttcaaa tactctatct tcaagctcac taattcctct   60
tctgcttgat caattctcct attaaaagac tctgatgaat tcttcagtat gccaaattcc  120
anaatttctg ctttattcat tttagttatt tcaatctcta ctaaatttgt ctgatanaat  180
tctgaattcc ttctttgtgt tatcttgatt tttctttgag tctcctcaaa acagctattt  240
tgaattctct gtctgaaagg tcacatatcc gtttctccan gattgggtccc tagtgcctta  300
tttagttcat ttggtgaggt catgctttcc tggatgggtca tgacacttgt aaatatttgt  360
ctgtgtttgg gcattgaaaa nttaggtatt cattgtantc ttctcagtct gggcttggtt  420
gtacccatcc tccttgggaa ggnttcata tattcaaaag gacttggga                469
    
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<210> 9344

<211> 449

<212> DNA

<213> Homo sapiens

<400> 9344

```

atataaagaa aatctatgta agttgaggtt cagaaatgca tatatTTTTT acttacaaat   60
attcatctga ccaaaattca acataacctt tatggaacac ttaacaattg ttttgTTTTT  120
aaaataacat ttcattcaaa ctgtatataa ttcagtaaag ttttttatac agcaagcaat  180
gcttaaaccg tggaatatct gtagaaaaga gattttcaca caaaataaga aaagaaaaat  240
ctgaggtatc cctcacacac acacatccat tcattctggc ccatgtacgt gcacatacac  300
acgcatgcct gtgtgttcac acagacatat tcattctcac tcacaaagtg gctgcagcat  360
angcaaaaat tgttaggtcc aaaggaaaat gattgattgt tctaataaag antccgagta  420
    
```

gctcagaaaa aaaaacaaaa acnaaaccc

449

<210> 9345

<211> 367

<212> DNA

<213> Homo sapiens

<400> 9345

gacagtctca ctctgttgcc canacaggan tgcagtgggt caatcttggc ccactgcaac 60
ctccacctcc tgggttcagg tgattctect ccatcagcct cccaagtagc tgggattaca 120
ggtgcccgcc atcactcctg gctaattttt ctattttagt aaanatgggt ttttgtcatg 180
ttggccacgc tggtttcaaa cccttgacct caggtgattc tctggcctca gcctcccaaa 240
gtccagggat tacaggtgtg agccaccaca cctggcttct ttaactctg caaagggcca 300
ggtctggcat acagtttgaa atttgctgcc anantcccat tttgcaatcc cnaacttctg 360
gtggaaa 367

<210> 9346

<211> 422

<212> DNA

<213> Homo sapiens

<400> 9346

atttctatgg tagaagcatt tatttcagat atagaaaaat aacactatth cnaaagtcng 60
antnagtnaa cagaagtata ttttttccct gcatacccat cctcaaagt cnaacacacag 120
tttccagcca ttcttacaag gaacaaatgc aaaattaaag tnataactgt caacagagga 180
gctgtattaa agctacgtat caaccttgaa aatcagaaaa cacaaagtga tctagtgcag 240
tgattctcaa ctttagtggt tatcagaatc acttggattg tggaaaaagc accttcagag 300
agctgaagga aaatcatcag gtcnagcaag cccttggctc cagaataaat atccaagaga 360
ctaaagatac gtgctttgtt cctcnnggaa gaaggnagga caaaatatnc taccatatnn 420

aa

422

<210> 9347

<211> 439

<212> DNA

<213> Homo sapiens

<400> 9347

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atccttctat agtcctgtca agtttaatgg aagtggggtt aacctgatta caacactaac   60
accagtatca ctgactgat atttacaaa atttgatatt ttcaataaat taaagtcaat  120
gcaacaccca tgcaagctag agtgctagct gtttggtgaa caaggacgtg acatcagaac  180
aagaagtcta taagtcccaa actttacaag tgtgatcatt ttcaaactgc atccattcct  240
cgcattgaan atgtgaaacc caaacccatn cctctttgtg tgtgggtttg tgatcttgcc  300
atttcatact gagcatctaa atttcgaaat acttcttcct gctgcttcan aatcttgta  360
ctttcttcat caactgaagc tacatccage ttcatcttca ctcttaatac ccatcaattn  420
cctaaatttg anattgggg                                     439

```

<210> 9348

<211> 283

<212> DNA

<213> Homo sapiens

<400> 9348

```

ccatttatat cacactttta gtgcacttgg ggtagtggat ctaacatgtc tatttaacat   60
tgctggagtt cccttaataa accctgttaa ggtataaagt aaaacatgca aagcattttt  120
aattttacaa atccctataa aaacgancta aaagagagcc aaaatgactg gaggtaaaaa  180
tgtaacttaa acgantgata tgacattaac tataatttct gaaatctgga aaaatccctc  240
aaaattgggg taaaaacttc cagtgcana gtagattttg ana                               283

```

<210> 9349

<211> 366

<212> DNA

<213> Homo sapiens

<400> 9349

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aagctgaaaa gacgctcatg anaccaaggg ganggcaggt nccaaaggca agggctgggc 60
cctgancttc tggcttcctg gtgcctggta catantaggt gttgactgga ttgaggacaa 120
aggaaaatan aattttcnaa gggattaggg ctaanactcn aaaaaaaact gcccnaggtg 180
gattcttgac tgtgccaaan ctgaccgagg tctgtccaan acctaaggat gctacaaggt 240
gttcatattg ancatggggt gcccgagggt gtctgtcaat cnaaaaaaaaa aggctgtnac 300
tggaagaaa attataantt tnggaaaata ccaaatingga acnggggaaa gggactgcca 360
tntccc 366
```

<210> 9350

<211> 535

<212> DNA

<213> Homo sapiens

<400> 9350

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attnnngag atggagtctc actctgtcat ccangctgga ntgcagtgat gcgatctcgg 60
ctcactgcaa cctctgcctc ccgggttcaa gcaattctcc cgcctcaggc tcccaagtag 120
ctgggattac aggcattgcg caccacgtcc gggtaatttt tgaatttttt agtatanacg 180
gggtttcacc atgttggcca ggctggtctc aaactcctga cctcaagcga tctgcctgcc 240
tcggccccac agantgctgg gactacaggc atgagccact gagcccggct tgcagtgtgc 300
tttagacaa cagaacaaac agatgatatg ggaaaagggc tcggattcac ctggcttcaa 360
atcctggtgc tgacacccat aactctgtng ccttggtcac ncctcttate ctctctgaaa 420
ctcagtctct tcttccaaac atngaagana aacctccctg aagggttgc tctnaagctt 480
aaataataaa taaaagtctt ggcncctgggg ctnantnta cttggtgccc caaca 535
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<210> 9351

<211> 356

<212> DNA

<213> Homo sapiens

<400> 9351

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gacctggtgc caaaatgaaa gctttaatga gtgttactcc tagacagtca cgtctcagct   60
tctgccagcc tccactgtcc cagctctctt agctggccga caggggagct agttgctgag  120
gggtagggat ctggagtcta aagagcagag ccaggcaaaa ggaggtacag gaagcccccg  180
atgggggctg ggctcccgga gtgtggtgct gggggggtcat gggcttcagg ccggcccctc  240
ttcaggcatt cctagcaaag ccaccagggg ctccanggt gtgggggtcc catgggcaca  300
nggtgggtgc tncatgcttg cgcaagtcgc tggcactcaa naangccttg gganna      356

```

<210> 9352

<211> 563

<212> DNA

<213> Homo sapiens

<400> 9352

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gggggntgat acagaattta ttgaattana tttttctatt tacaactgaa atnacatcta   60
catactattt tgctantcta catgggtnc aattttccaa caagcttaan anttaccatg  120
aatgggntca ttcatacaaa aacacactca cactaattct tttaaacag tagtgcatac  180
attatactcc tcctataaag ccaactttga ttaaaaacca ctantttcaa agctcagtct  240
ctgattttga anatgaacca agatatacnc catatgatcc tacaatctat tttagtcatt  300
ttgtncagct gctatcttat tggactacag taaatatttt ttaaaaggac accaatgang  360
ggcaccatct ggtgttnacc ttaaccanaa agctggtttc ctctcctcc ccccaaaaac  420
tttgggcaan aattctccnc tgnaaaaant gaaaggactg gtgactttcc gcatcatcct  480
gtttcccttg gaagttacaa aaacagggen tgttcccctt aatcnacccc ctactnaanc  540

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ccantgtgcc taaattnaan ttc

563

<210> 9353

<211> 372

<212> DNA

<213> Homo sapiens

<400> 9353

aagggaaagg atcttgctat gttgcccagg ctggtctcaa actcctcagc tcaagcaatc 60
tgcccacccc agcctctgaa agtgctggga ttacaggcat gagccacat gtccagcaca 120
ctttaatat cactatgggc cctcaaaagg aaatgtttgt ggggccacca aaagcaaatg 180
tctcttgaac ctantcacct ggggggacaa gtgtgggaaa gtgcacctgt gttcccatga 240
naccactca agaggagcag aaatcctgtt ttgctatttc cttaattgct actaaggctg 300
ggattttttc atgtttattg gcccctctac atttttttct ttaaaaaaat tcncaaacn 360
tgtttatatt tg 372

<210> 9354

<211> 442

<212> DNA

<213> Homo sapiens

<400> 9354

gtaaanacag ggttttgcca tgttgcccac cctggtcttg aattcctggt ttcaagcgat 60
ccaccacat gggcctccca aagtgtggt attccanaag tgagccactg cacctgacct 120
gggcctattc ttgaccttc tttttgtgtc tcagtttctg tatctgtaaa atggaaataa 180
caatacctac ctcgtaaggt tgtgaanaaa attaaaatga gaatacctat aaagcactta 240
aataaaataa ggcctagtac atagtatata ctctataaat ggcatctgct atgattataa 300
ctattgttat taatatctaa tgttctctat tattctccaa taaaatcat ttgatgttat 360
tttgccccgt ttcctgcatg atctcttctt gcttattccc cccctaccag nanttcattc 420

ttnattttc acctcaacta ca

442

<210> 9355

<211> 613

<212> DNA

<213> Homo sapiens

<400> 9355

acaatgccta gcagaatgtc ttatatgtca ataaatattt gccttgtag aagtaatttg	60
tgctttgtta taagtaatta aaaacaagct tttatgcact ctttttaaatt tcacttaagc	120
tacaccgtag taccctcaaa aaaggctttg aaattaanat tactgtccac atattggatt	180
agttattgat gaataagcaa atcagcccct ttcaaaagan atcagttagt cctattctac	240
gtggtttcta gtgaaatagt ccagcaaaat catataatac tgtgtcaaac tttttctgct	300
cttctttttt taaaaaccaa acaacagacc ttcatcttag ggaacagcag ttctacatct	360
ttaccccct cgggtaggta aaagtgtcaa tanagaagtt actactatat tcccctccca	420
aatttttaga angagcagta aaaataaggt ttgatgaaa ttcccataaa atatttaact	480
cattattgtc tcatgtcana aacaaaaata aggccatttc ntgttataac atgaatataa	540
taacctcccc ttgttccaaa taaccaaag gtaagttccc tctttcccc ttcttaagaa	600
gtttnccntt ttt	613

<210> 9356

<211> 301

<212> DNA

<213> Homo sapiens

<400> 9356

gggaatgant tgtttttatt ttacagtga tcacctatca aactgttctg ctgtgttata	60
gttcccaaac tgganttcaa cagtcttaga aattcagtg tctaagaact gcagttcttg	120
antccaacct cctgggaaaa gtgaagtata aaactctggc tccagctgct tgttccgta	180

cttggtgaca atgtcgggtga ttttctgttt ccggcggaca tggggggggac tgtangaatc 240
actttccagt ctctttcttc tacaaatgtt aattacagtc tgcctcacca naaagccaan 300
a 301

<210> 9357

<211> 578

<212> DNA

<213> Homo sapiens

<400> 9357

gagatggggt ctggcttcgt caccagact gggaatgcaa tgggancaat catagctcac 60
tgcagantca aactcctggt cttaanac ctctctctc atcctcctga gtatctggga 120
ctatgggtgc atgccacat atctaagttt taaaaattaa tttgtacta aagganggtc 180
ttgctatgtt gctgaggccg atgttaatat ttataaaaag aaaaacatga cacaacagtt 240
caaactgggtg cttttttgca cctatcctgc actataaaaa taaaactta aacatagcag 300
ttacatggca ttccatttcc ttttgacatc acaatacatt aaataggatc ttttcaaaaa 360
gtaagacagt ctattttcct atttcgtaaa aataccacag gctggaattc taaacagatt 420
ttttttttt ccttaaggga tctttattcc cncncncnc taaaaaagac ctgaaaacag 480
gtcctcctta nccatcctac tttaaaattt ctcccaatt nttttngggg aaaccggaaa 540
aaatccnaaa ccttggtcca tttttttaa ntganggn 578

<210> 9358

<211> 504

<212> DNA

<213> Homo sapiens

<400> 9358

gcttttgttt tgananagga ntcttggtat gtccccangc tggaatgcaa tgggtcgatc 60
tcggntcact gcaagctccg cctcccggt tcatgccatt ctctgcctc agcctcccga 120

ntaactggga ttacaggcgc ccgccaccac gcccgntaa ctttttgtat ttttagtaaa 180
aacgggggttt caccgtgtta gccangatgg tctccatctc ctgacctcgt gatccgaatt 240
aggcactaaa ttttaagcat aacatganca ctctccaggg tgagaancca tcaaaatcac 300
gtttgcaagg ttgtctgcga acctccacgg gaaaaancaa ccaggccaag tacctgacat 360
tacatgggtg acacctggct ccctgcagct gctgccaaagc aangctgtna aaaggctcctg 420
ccccnctat aaagctgttg gttcctgcct gccacnccac tcttgggttg tgggttntna 480
aattgggaaa aaaccccnaa atna 504

<210> 9359

<211> 312

<212> DNA

<213> Homo sapiens

<400> 9359

agtanagacg ggggtgtcact gtgttgcca gganggtctc gatctcctga ccttgtgatc 60
tgcccacctc ggcctcccaa agtgctggga ttacaggcgt gaaccaccgc acccagccga 120
atgtncctaa cactactgaa atgtgcactt anaaatgatt canatggtaa attttgttat 180
acgtatttta ccataagttt aaaaaaagga aaaaaaaggg agcagggaan gccacatctt 240
tccacttggt gtccaactag tgcctatgtg gggaggcact ggtgtgggcc annaaaatcc 300
tgagggccct ca 312

<210> 9360

<211> 409

<212> DNA

<213> Homo sapiens

<400> 9360

aattcnatgg tataacaaaa tcagttccag gtttttttct gaacaaatga tcctttggtc 60
tttcccgtgg catgtccta aaacaactaa aacaaccctc tacgtctaata cagtcaccta 120

anatatcgag tggcaagtct ttcacatttg ctgcttataa ttcctgaatg gtccatattg 180
 agtattttca tttctgggta agggaaaaag cattttgggc cattaattca cccgctcgct 240
 cctggaggac gttaccaat tctgctatca caaagacgtg agtggcatca atgtcttgca 300
 tgatgaactt cncaggcttc catttttgtt cactttggga tggttttcct gtcgaactgc 360
 gtggaaaagc angaagcaca ctgtccactg taggggtcct ggtccanca 409

<210> 9361

<211> 502

<212> DNA

<213> Homo sapiens

<400> 9361

gtaggccatc agaggtagaa ggtggtaaaa acagagttgc cactctcggt gtggccacgt 60
 gagcacgtcc cacttaagta acagggtgtc cctcagggtca gcttgtgata aaacccaagt 120
 caaacaaggc tgaatcctgg gtgttttatg tctaaggat ctgaaaagtg ttcacggcca 180
 gccctgaccc tcaagacctc aaatgggtcat ctaagcagta acgtaaattg gtgtgtaaac 240
 ttgctcctgg gccattgctg tggaagtggg actggcgaaa gtacagcctt gccatgcagg 300
 aactaatgtc tttctaggca tttaaaataa gggggaatgt gttgattact ccgacaggca 360
 acccaactgc agtggctaaa tgcccaaggc tgacaaattc tgcatcttat cactcccgctc 420
 aagtggcatg tgaatactgt cnncccaaaa gaattgagaa acaacttgcn ttccaaaact 480
 ctncatctcn ncaaaatctn ga 502

<210> 9362

<211> 448

<212> DNA

<213> Homo sapiens

<400> 9362

actgtttcna aagtattcna taccatcnaa gggaaaaaaa cattaaaata atctccataa 60

ttgtgaaatc tgacaggnac aggtcttgaa atggactgac aaanacttgc aggggggncca 120
 cactgaccaa agttcaaaaa catttcatat ttccatttta agacctcttt aacgaaagtg 180
 tctganacag actgtgatga caaaagaatg tttactggag aggaanatgg aaaatatattg 240
 ctttcaccna atggaacttt gcaaccttgc ctgttggaaat tattcggaga ctgaggatga 300
 anaacattgc acgaattctt cntttcacca actggcttct ganctatgan gggaactggc 360
 tgtggtncct tcnaaatcna ctgtatcccc tttagacttat tttttaaaaa accgtgaaag 420
 tgctgaaaaa tttcccnana tttanaaa 448

<210> 9363

<211> 583

<212> DNA

<213> Homo sapiens

<400> 9363

canaanaggg tctcactctg tcacccagge tggantccag tggcacnate tcagctcacg 60
 gtgactctgc ctcttgggtt caagenatct tccagcctca gtctcccaag tagctgggac 120
 acaggtgcat gccaccacac ccagctaatt tttgtatttt ttagaggana nggttttgcc 180
 atgttgccca agctgggtct gaattcctga gctcaaagca atccactanc cttggcctcc 240
 caaagtgctg ggtgtgagcc accttgccca gccacaaga ggatttccca gttgcctcat 300
 tgcggcagtt gccgggagct cccccaaaaa aaacaggga ctggggaact gtgggcatgg 360
 gtaggantga aaccagtctg aatcaccctt tggaatctgc atcgtgttcc ctactcaac 420
 aaatattcct gttttccggt nggcaaaaaa naggtcccc cgggaaaaa acaaaagaat 480
 tttgcatttt ctgtcaatca acaaaacctg gggaantccc nccccnggaa gcaggaaaag 540
 ccttaaaaac tncggcgagg naattccggg ttnaaacccn aag 583

<210> 9364

<211> 352

<212> DNA

<213> Homo sapiens

<400> 9364

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cttcagcagt gcgggggtcc ttaaatgttg attcaagtcg aataaacttt tctacgtctt 60
tcaacctctt aggantccca tctatggatg gggaatggga tctcttaggt gtaacagtct 120
tagttatatt tgacattcca ttcanatgcg gttgtccctg ggcagggttg tgagggtgtg 180
tgattctagg aatgacattt cgtcctacta cggtaggaat ggtacacaca gtgggggggtg 240
atacagtttt tactgtaaan tcaacttttg cgccaatcac tggaatggaa agtccttggg 300
ctgggtggtnc actcagtggc ttctcccaat tacacancag gtcagcact at 352
```

<210> 9365

<211> 410

<212> DNA

<213> Homo sapiens

<400> 9365

```
gacagaagta aaaatattta ttttatctta aaaatctggt cccgcaaaaa ggncaacact 60
tttttcagtt cacggtcttg acctttcaaa gaanaaatct ttcaactgag aggtgagtta 120
ataaaaggaa tgtcagaggt gctttcagat ttcttataaa ccagtaaacc aagcaaccct 180
ggacttctag ttactgagc tccttcttct agccattcac agttcctgaa ggagaaaana 240
agttgtttgc agataaggca ctttagaaac caccaaagag aaaaccaag tctgccagga 300
gtgcactgt gaacatgtga gccgagaggg ccaccnccan acagantgcc aactcccaca 360
gtccatgac aacagcatcc accttctgc cccaacactg ttccgtctgg 410
```

<210> 9366

<211> 274

<212> DNA

<213> Homo sapiens

<400> 9366

aacaatcaca agtcattgct tttattcaga cgtaggggca aaacaacagg gattctacat 60
 ctggctaatt ttttcaaagt ccttttgtcc aactatctat taaagaaaaa aagttgactt 120
 acttctgagg tgagggatcc agtgcggcag ctaaaacttc ccctgccctc tgccacctgt 180
 gtnatggcca catgcttgga tgttgaaaac agcaaagatt agcaccttcc attccctggg 240
 ggccagcaaa nacttttctt ccnaatcaca tgca 274

<210> 9367

<211> 357

<212> DNA

<213> Homo sapiens

<400> 9367

gcatgaggnc aatactgtta ttgttcacat tttacagagc aagaaacaga ggcagcgagg 60
 cattaaaaca cctgtctagg gtcacagggt gtncagcttt cananccagg aatcataacc 120
 aggtctgtct tgttctaaag ctgtcctttt gtaactcctg cacattaaac aaataatcac 180
 aactaatttc ttaaataatt acaaaaaanc caagtgtttt gaantataaa taciaaagggc 240
 taccgaagca taaaatggga attggaaaaa tacctaccnc ncccaaaatt attgtnaaaa 300
 ttaaaaanca ctenttggtg cactttgtnt atcaaaaaaa anctttaaaa atgttca 357

<210> 9368

<211> 369

<212> DNA

<213> Homo sapiens

<400> 9368

gaggttggtg ggaaaaattt aatcagctac agatatttta agtaccaaag gctgcctctg 60
 gagggaaaag aaaactaccc ctctggttct ggttgacaga aatatgtntt atcagattcc 120
 ctgtgaggct ttacatccca tgtttgctgg agaacagagg gattctctaa gagtgtagtg 180
 atttcttcag atagttcctt catcttgcct tcaattattt cagangcctc acaggcagtc 240

cccattattc ccagtcattgt attcatttca gcttatttcc aactcagcta tccttggctc 300
tgaaaagctg tcatcactgg catcactgta tctatcactg ggaaaanant ttgcaaccct 360
gttgcaant 369

<210> 9369

<211> 297

<212> DNA

<213> Homo sapiens

<400> 9369

gacattttta aagccatttt aatgggaaat tacatcctac atacaggtgt tattccaaga 60
agtttcattc cattggctan gacagaacgg acagctttga aaagatgaag tctggcccca 120
gccacttcag gaggactatc ttttatttgt agtggtttgt gtgccacagc tgcaagatga 180
cttaaagtta gaaggtaact gacgatatgc ctgggttgaa agtcctgana tgatttataa 240
agcacctcgt cgaacctgan aagatgctga anaattgaaa cagactgtgg ctcttgt 297

<210> 9370

<211> 456

<212> DNA

<213> Homo sapiens

<400> 9370

ggagaaaaat tcttctttat ttaaaaatac cagtaatact gacagacttc aaaagcaatt 60
cacgcttcca gaatacaaag tacttaatac atattttcaa acctgtttgc atttcaaaca 120
aagttagcgt ttttgtaaata caaatttgat aaccgcgacta aaaatatttt ccagctttat 180
tatttaagga gctgcacagc cttaaagtgt gggaccagga ngcaggcaga ggcaganaga 240
ctgaatgcac ccaggactgc gcagcagtct acagcaacat gtcccacaac tttggtgctg 300
gaaacacaag ttatgcacaa gacagctgcc ctccngtgctc aggatcctgt gaaacagcat 360
atcaaaagat cgcngcttc ttataattta cacactttcc nttagaatg gctttttgaa 420

aaaattcttt aaaaatgccn ttttaattta atttcc

456

<210> 9371

<211> 395

<212> DNA

<213> Homo sapiens

<400> 9371

aagtttgcaa atcttttata ttccagctg ttgagacagt atttttgagg gntgatgtta 60
 cctctagcgg ngaaaccaga nccagctatt aagcagccag aaagctacag taattgaata 120
 catgaccatt tctcttttag cacgttcttt gtctctctct tccagaagtt gtagacgtct 180
 atttagtttg attatctgtc gtcttagtga agctgcatct acaacagtca ggtcatctga 240
 cgttccttca atggttgtat ctatatttga aatgccatac ctgacgttgt catgatgagg 300
 attagaagtg gcggcagcag acccaccacg caacacaggt ctaaggcagg tttttgcggg 360
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<210> 9372

<211> 449

<212> DNA

<213> Homo sapiens

<400> 9372

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 gattctttaa gaccttcagc agcccatcat ttcaagatga tatggtctta tcccctgaac 180
 taggtatctg acctcaatca tagctgagtc ccagacttcc aatgaacctt acaccccacc 240
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 gcacttccca cctcaacca tgctttgatc aactgcagtc tggttccact gtggccatgg 360
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atgggttctg ggatancaac tngtcctct

449

<210> 9373

<211> 450

<212> DNA

<213> Homo sapiens

<400> 9373

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 taggaaacat tgtttctctt caactgtatg acaatactgt atatgccaca ataaaattta 180
 caaaaacaat cgcatcagca gtcataacaa acatcatgat ttacatttc aatacacaag 240
 aaaaaaata ggcatcttcc cggcacttgg ctcccgctg acggcaacgt ctctccaca 300
 ctttgagaga cctcagcttt taaaaccag cagcggctat ttcagaagtc atgtcctttc 360
 cagatccaaa cttaaataat ganaaatttg ccatttcnaa ataactgaag aattttattcc 420
 tggaatttgg gaaatttaac ccccccaan 450

<210> 9374

<211> 410

<212> DNA

<213> Homo sapiens

<400> 9374

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 agtcacaaaa atgtctacat agctttccaa atctcgtatc agtcagtctc tccgtgtgtc 180
 gtgggagctg cctgcgcttc cgtgaacggg aactgagaa atgcttcaat atgtgccacg 240
 ccattccaga aaactccctg canaagcagc tcttcctgca gcactcaacc ttgtgttatt 300
 ttcctggact tcttttatgt ggcagatatt tatgttttca tcatggttga anaanctgct 360

tggaacagg tnagctgcaa ntgcattgcta ctcttganct tgnccanga 410

<210> 9375

<211> 457

<212> DNA

<213> Homo sapiens

<400> 9375

caaacaactg ttggattgta ctttaaattgt gtaacacccc anancagctg tncaatgaat 60
gacatagaac tttcttctag acaaagatta ggaaaaaatt agtacattca cgctttcaac 120
agaaatacat tacatatattt ttcagttttg ttttacagtc atagacacaa tcatattgaa 180
actacatatg gataaattgt aagttattaa gtaatgattt tcatttgtat tacatgatga 240
gtttcacaac atgaggatta catatttcaa tatggcatat actatttttg aaccacataa 300
agcaatatag tacaaaataa tgtaacagtt actgtaaagt cagtaatgcc acttggcaaa 360
tacatcaaat atgccaccga aaaccagtcc aagcatgaga catgacatct ttcatttcta 420
aactataagc cctttgaaag ganggacntt nggaccc 457

<210> 9376

<211> 560

<212> DNA

<213> Homo sapiens

<400> 9376

cccagancag gtgcgtttat ttttatatgc aaatatatca cccttcaatg catatacaat 60
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gttcatecctt ccatgganag cctcattatt tcatacaata aacatgccag aaaaggattc 180
tggggaaaaa acctgtatca gctcaaaagg anaggttttc ttaaactgtc tggggttact 240
gagggtcaaac aanatgactg catctgtttt acaggaaaaa tcaaatccaa agtactaatc 300
gtaacaagga ctaggctagt tctgatgttt actttcctac ctacagctac tctgtaatga 360

aacaaataat attaacaacc ccagagtga ctaagtttac acatgccaaa tatcacatct 420
tattcnttat ctcccacaag cnatacaaaa tgtaaactgg gtatctnaat taaaggcncc 480
aattcttaat tntccanttt cccagaatat ttnaaaaaga aaaaatccat tenccttaac 540
cttattttnc tactcctaaa 560

<210> 9377

<211> 469

<212> DNA

<213> Homo sapiens

<400> 9377

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ttattttggc ttttaagtga atcacttaca tctanacatc ctttgaagca aaaccactta 120
gaaaccagta ttttgtgcta aggaaggga gaaatactac aaaatgttgc aaaacagAAC 180
aaaaagctta aaggtttaag aaatttaaag gcacagatat ttcacatcaa ttcanatttt 240
atagtatgca aacatgaaat aaaccaccgt gttacaacaa atatgtgcta gcgattgggt 300
agatttcaca cttctctcca aatgtnacac tgtcacattg catttctct ctanatgtat 360
actgatagca ctgggaaaga tggtcagatg cagggacaat ccnatgttt accaaacttc 420
tgaaagatga atatncgcta caaacttagt tccnaatatg aaatgaaaa 469

<210> 9378

<211> 584

<212> DNA

<213> Homo sapiens

<400> 9378

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tcctcccact ttggcctccc aaagtgtggt gattacaagt gtaagccatc atggcagggt 120
ttgtttttta tgtgttaact tgctangcta ccagctgcca tttgtttaat caaacactaa 180

tctaggtgtt gctatgaagg tattttgtag atgtgattaa aatccataat ctgttgactt 240
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 ctagctagcc cctacaattg cataaactct ctctctatac ttcgtactgg gttctgcttc 480
 tctaagttct gaaccttgan tgatatgcca gcttggttatt tatttgccaa aacaatcctt 540
 ccaaaatcta attaanccct gtctattttt tcccatccgt ncct 584

<210> 9379

<211> 498

<212> DNA

<213> Homo sapiens

<400> 9379

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 tatangcaca tgccaccacg cctggataat ttttatTTTT atttttggta aaaacgggggt 180
 ttcacatgt tggccaggct ggtctcaaac gtctgacctc aagtgttttg cccgcctcag 240
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 ttttttttg angcagggtc tggctctgtt gcccaanatg gaatacagtg gcacaatctc 360
 agctcactgc aacctctacc tccggggccc aaaccatcct cccacctcag cctcacaant 420
 atctgggant acangcgcac aacatcacac ctggctaatt tttttgantt ttggtaaaaa 480
 nagaattttc atcntntt 498

<210> 9380

<211> 357

<212> DNA

<213> Homo sapiens

<400> 9380

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agttctcgct gtggaaagaa cgggccgcaa gcagctggcc cgggatgcct gcacccangt 180
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ggctcaagaa atcatcttca nggtgatgtg ggggatncan gtggaatgcg gtgangaaaa 300
aaagaaggcg ctgggctccc ggcccctgtc canaattgac tcccnanaag aatccca 357

<210> 9381

<211> 436

<212> DNA

<213> Homo sapiens

<400> 9381

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naatcatatt taaaggctgc ccaatgtnga ntctantgac ctgttcagga cacctgaaat 180
ataattaaat gacaattatc aaggttttaa caatttataa ttctaaacca gangattata 240
aagaagtgca aattgacttt tacattcaac tttagttaaa tgaaggcact cagtattctt 300
cctgaataat acattccagt ttctcacatt ttatgctttc atctattcng aattatttcn 360
tagttaaata atctactctt atnccactg ttttaacgaa ttcntaatnt ttggaaaggc 420
ctntaaacct taaccn 436

<210> 9382

<211> 371

<212> DNA

<213> Homo sapiens

<400> 9382

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gacaaaattg taacatctac tacaatatat cttcaaaaga aatcattcac aaccacactc 120
acatgacaag aagacctcac agactcnaaa taaataggaa aaactcatac ataaatactg 180
tcccgttcca aactganac tctcagtcac gcagaaaaca aattgaggca ttgagtggag 240
gcaaagggca cttctgcagg aactgaccct caaattaggg attctcaacc cgtcttccta 300
ngatgagcaa tggatgattt gcttggaggc tccttgttca gaaatatacct ttctccctgt 360
ccanggtnc a 371

<210> 9383

<211> 505

<212> DNA

<213> Homo sapiens

<400> 9383

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ctgtcctgtg ggacccagga ccagagaggg agctgcagag gacagggctg gacagagggt 120
agccctgggt cttcaggaac accagccacc cagccatgag agagggaggg gaaggaggca 180
atgtgggtac caagagtcca gaaggactca ggcctcagcc ccagggtcga gatggagtcc 240
cagctctcct atccaaaccc actccccgac ccatgggctc ttgggctggg agcatcgctg 300
catttagtca agtttgagga gtctgaaaaa tattttccag aagataaagt cttgggtcat 360
cgatgcccc a gcttcacagt ccgtgccctc attctcagcc cctcaccatc cgtgcgccac 420
ctggggcccc gcagccgcct gcggctggac ntctccaggc ctggcatcct ccactgggtn 480
attctgtccc tgnaagaant nngcn 505

<210> 9384

<211> 580

<212> DNA

<213> Homo sapiens

<400> 9384

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actatgcagc cataaaaaag aatgagttca tgtcctttgc agggacatgg atgaagctgg 180
aaaccatcat tctcagcaaa ctaacacagg aacacaaaac caagcaccac atgttctcac 240
tcataagtgg gagttgaaca atganatcac atggacacag ggaggggaac atcacacact 300
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atatacctaa ntaccaaacc tgcattgttct ggacatattc ccaaactta aattaaatta 480
tttaaaaaaa aaaaaactgg tttatnctat ccaaatttcc cnttctnttg gacncaaaat 540
cccccggtcc ttttttaaaa gggaattggt tttnaaaaan 580
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<210> 9385

<211> 576

<212> DNA

<213> Homo sapiens

<400> 9385

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aattaggtca caaaagggat gcaaaatgtt tgcagtttga ctattatata ttcacacagc 120
taaagtcatt catcaactct tacaccaata cataanatta ttccatgatt aaaagcccaa 180
atctaataac cttagctac attagtggat ctcttttcat attataanat ttttagcaata 240
cttccaatat tgatttccct accaaatgga atctanaagc taaattttta aaaattgtta 300
aaggatgact aaaactcttc aaaccagta gcagggttta cagaaaattc tagaacaagt 360
gagataaaat actgagcaag ataataagta tacatgtata actttcccat tttattcact 420
attctaatac taatacacca ttacggaatt ttgcagaagt tgaccactg ggtacaaatc 480
actaaanac caaactcttt gttactgttc tctccaaatt tgntaacata aggggtgtcna 540
cttaatcccc ttentatatn tttccnaaa atttcc 576
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<210> 9386

<211> 597

<212> DNA

<213> Homo sapiens

<400> 9386

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taaagacaat aaacagctaa gctactgaca taaaatatac aataaattita tgagatataa 120
ggtacagatg agaaaaatct gaaataagtt ttttaacttca ttttagcctat taggaacatg 180
aagatgtctg gaattgatgc tggccttggg ctcaagtact ttttcccata tgtattcgtt 240
ttatccttcc agaaagcata tcatattaga gtgtctaaga aatcagtga tcactaagtt 300
ttccatctta ccgaagtaca aaacattatt tcaaacttag gccttctgac agaatccaat 360
atctatitit atacttactt ttctttctac taagttcttt aataaaatta tgaatcagaa 420
agcaagtaca agacatgctt atttcccaca gaaatatcnt tgaagactta agaagaataa 480
atngccngtn cttctaaaaa atcccaaatt tggacatttg ggaacaatat aattgccata 540
ctaattatat cttttattaa aaaanaactt ttccagcttg gtttccaaac tcttttn 597

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<210> 9387

<211> 499

<212> DNA

<213> Homo sapiens

<400> 9387

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agttagtga aatatatatt tgccaccaga attcactggg accccagagc cagcagatgt 60
ggttggaag atcctctgct ctgtcctctg gcctcctgct gcactctgggc catcagtttg 120
actggaggag ctggacgggc acatagtttt cctcagaggc accatcctca tctccttgg 180
gaggggaagc caggacaggg ttctcganag ttcgagggac acctgcccct gacgggtcct 240
cacacagcgt angcagcgtc tgctcccatg aagcccagtt cacctcctcc accctgaaaa 300
caccancgt catcggggct gccatctggc ttaatgccaa cggtcancat cacacctgcc 360

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cgctgcttct tcctgcacca ccaatagcca ttctccatct ccagnanaaa aatgctttct 420
gcatttccaa atgctccact ntcattggcg aaactnttga cngtctccct catgaagggc 480
aataaacntt ttnaacacc 499

<210> 9388

<211> 530

<212> DNA

<213> Homo sapiens

<400> 9388

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gaatgaatga agtcttcttt gacgtcccct gtccacagtg atcttctgan aacctctgca 180
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tgaaagttaa taatantgcc tgctccacag ggttggttgt gaaaaataaa tgaaatcatn 480
tntntgaaat gcctaccata nctttgncc ccaggtgctc anttaatacc 530

<210> 9389

<211> 545

<212> DNA

<213> Homo sapiens

<400> 9389

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gaagtggcag aagcanaatg ggaacccggg cagcctgggt cctggccctg ccattcaccc 180

ccctgccatc taaaaaatgc tactggtggc ccacccgant ccactggggg gtgatgcctg 240
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 gggccacctn aagctggact tcctctnaan ccacttcctt gccactgct cctccccctc 480
 ccctgcttcc ctnaatccct cctnaaacc ccattccaaa acctgctctn anaaacctna 540
 actaa 545

<210> 9390

<211> 574

<212> DNA

<213> Homo sapiens

<400> 9390

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 aacatttcac agaaaaatac gangctgtct cttttcaggc ccctgctggg tggcggcctc 180
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 gcaaaaactaa attcccaatc cttgggaacc tgctctttta ccactggctc tgaaccacaca 540
 acaaatcccn nttnttaaaa accccatttt tttta 574

<210> 9391

<211> 536

<212> DNA

<213> Homo sapiens

<400> 9391

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gaaaatgaaa tgattgaaag tctttatgaa tctcatacat acaatatgtg gctagctgaa	180
attgtctatc acgtagcatt tanatataaa aagcctcatg ctagtttggt aaatgcaaag	240
gctaccanac gaccatttag ctggagaata tacggaaggn tttcagacaa cgcacaggta	300
tagtgctgct cacagtgcag gatggtagan gactgaaaca tgcaacctta caccttactt	360
ggtaaagcag atttagtctt catgcctgga ctgaactcca cagctgctgt gtttcaccaa	420
cagtaattta aacttttggt acaacaacca atgtcttttc tccttaanaa aaaaagaata	480
atttattncc ttggcaatta tatancntt tacnttttta aattgtgctt tnacnc	536

<210> 9392

<211> 516

<212> DNA

<213> Homo sapiens

<400> 9392

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ctggaaccgc aggtatgtnc aggtatgtac cgccacattt ggtcattaaa aaaaaattgt	180
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cttagcctga gcctcccaaa gtgcgangat tacagtcgtg agcccccag cctggctgcc	300
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gtcctcagca tcttacctgc atcaggttca ccaaggggcc ccacccgatg gctccctgcc	420
tcaaancagt ggaacatcca tctctcccaa gaatggctng tancacctga aacncatgca	480
aatancctgg gaatttgaaa aaaaccttaa nccena	516

<210> 9393

<211> 569

<212> DNA

<213> Homo sapiens

<400> 9393

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gcaattaatc tagtcccagc acttttattt gtaaagttct caaatcaaaa gtaacaaata   60
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cttctctgac acaagtggna canatccagg cttgctgtgt ttaatacnat tcacttcctt  180
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gtcagaagtc cattttacac agataacatg ttgcattctc tttgtatgat ataccccctg  480
cttccacttt tgtctacngg aaaaaatcna ataaaatttt cgaaacttgc cnaaacaac   540
ccctcccnnn ngggaaatta tccctcca                                     569

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<210> 9394

<211> 586

<212> DNA

<213> Homo sapiens

<400> 9394

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aaatgacaaa acatatttag aggctttatt taaaaatctc tcaactgttca ttatcaaagt   60
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gggtttactg taattcaatc ttttacaaaa aattacttgc aagttattga taacanaatt  180
tctcttttac tttcttaatt ctcttgaaaa ttaaaccaat gtttccactt tcatgagcta  240
aagttcaacc atggtcacct taggaaatac ccctgtttat ttgttaatca gaaatacaaa  300
tcgagtggca catacttcca ttttcttctt aggccaaagg tttcagcttc attatatatt  360
acagaanacc ttcagtggtc cggttaagtct ttcatgtcac agctgangtt taatgatggc  420

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agtggaggaa agcanaagtg atgcaaagta agaccanccc agttgcctta tctgacatgg 480
aatcttttcc tgtctgctgc accaacaat tttcctggtc aggttgccnc cccaaaccga 540
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<210> 9395

<211> 585

<212> DNA

<213> Homo sapiens

<400> 9395

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ctacaggcgc atgccaccat gcccggctaa cttttgtatt ttttagtaa aaatgggggtt 180
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gggantacag gtgcacacca ccacatccgg ctaatttttt gtnttttaaat aaaaacgnat 480
ttccccgtgt tgcenggtg gtctccaact cctaaactca cccatccacc cccctggggc 540
ccctcaaatt tttngattac aggttnaanc ccccccccc cccta 585

<210> 9396

<211> 379

<212> DNA

<213> Homo sapiens

<400> 9396

cttanaaaaa ttgactttat ttggttgga agtaccctca tgnaaataa agaacacctg 60
tacagacctg gtttggggga gaactgccaa ngaaactgga ggggcagggc tgtggcccca 120

aaagttggaan gatttggggg gagagtttct tctttggcaa gggagaaggt ggcacaaagc 180
 ccaggcanan gggtcagctc ggggtgagac catgactagc agtactactt cccaccctga 240
 acanaatcca gggatgctct gtcctggaca cgtcaaaaac tggggttgan gtggccctcg 300
 ggtcaaaggt caggaactan aatgctggcc anggtcanaa gtcangangt ccgangctgc 360
 tctctgaagt cagggggca 379

<210> 9397

<211> 501

<212> DNA

<213> Homo sapiens

<400> 9397

atgatggtct ttatttaca ctttattggc aaaaaagaaa agggaaactt ttaaacaatt 60
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 ctaattgtcc aaagatacac aatactgaat ctgcatacgc agtttccttt atgaagtaca 180
 gtgctcatgt tttaggcagt cttctaaaca tacaataca gaggaaatta aattactcnt 240
 taaaaactgt gtcaaatgaa gggatatttta aatataagtt tgttgtttct ggtaatagca 300
 catgccc aaa tgaaaaccaa aagatggaaa ggcagataca cttcttactt ggggtggacag 360
 ttacaacatc aatcattttc tgcaatgacc attatatattt ccatttatcn tgaactactc 420
 tgaacttact atganatggt cccaagtcca aaaaaaaaaa attttnggga caanatncct 480
 ttttggccgg naggttacnc c 501

<210> 9398

<211> 594

<212> DNA

<213> Homo sapiens

<400> 9398

cagcaaacct tcagagggca aaaganaatt ttcccttggc ccttacagaa gctttttgcg 60

gncagtcttt aacttgccaa ttttctatca ctatttaata atatgagaga taacccaaac 120
 ctctcatccg gcatttgtct gttgccatca tctaactc tagtggagga atctttacaa 180
 taatggcaag gaaggagatg atggcacatg aaactctatc ctaccaaaaa ccacagatct 240
 tcccttactt tcacccagac atataagaac aggaccaatt gtgaaaatca aaaggagat 300
 tagagataga aaataggagg cgtggcaacc ccacagacct gtgaccttg ttgcagctcc 360
 cttccttctt acaatcctca aagctcacag tttctcatct ctcccatttt agctccatgt 420
 gtctcacaac agcagccact actcctgggc tgccaagccc tcattgcatt ttgggtccca 480
 gtcattggtt cttgtctaaa atctttgctt ctcatttccc agttatataa ggtcttttcc 540
 tctnccnct ctaaaaaggc ctggtccttc ctggttaaga atgccngaatt tgag 594

<210> 9399

<211> 571

<212> DNA

<213> Homo sapiens

<400> 9399

cacagtacac agcagttatt tatttaaata cttgaaaagg ctgatgatgg aaaaaatagg 60
 tttatcatga nagtttatat tcattanatt tttttatca tttaaaaat tactgcctct 120
 aggttatcct agcctgatat anaacacttg gtgacacatg cagttactgt aatatactat 180
 aacagacaca gccattatag aatgatttac acttgggatg aaattcaaca gtagtaaggg 240
 tgactcttta tttaaactaa aaacattggt aatatacaaa tttttttttt atttcattga 300
 aagggtata aaattcaaca tactgacaag gaagcaacat aatcacatan ataacgcctc 360
 tgctaattgc ttttacctaa ctccccctta aaggtgagct gcacactcag ctaccaatct 420
 tctaaactgt gcnatngctt caaggctggc ctaccacaac tgactgaaaa aaatttcntn 480
 ttngtaanct gacactgact tntttttttt taaaaatgga aaaacaatgg ccaattnttc 540
 cttatttcct ataaaaccn aaggatcttc c 571

<210> 9400

<211> 515

<212> DNA

<213> Homo sapiens

<400> 9400

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acatcccaaa caggtctttt tatttaacat aaggccaaag aagctatcag gcgttgctga   60
atactgtcca ctaactgtac aaaatattga ctgcatgcct cgcaaacc acc aaaatatccg  120
ctggaatgcc atanaaataa ataacttctg ctataaacac atgaaaacat atcaaaactgt  180
tatctcttta aacatattgt aaataaaaaa attaccagta cttctacaca ataaatatta  240
agaaaccatt gacatagttg aaatgcactc atataaatta acaactttta ttacattagc  300
caaacagaca ttggttaaag aactgcatgt tagtatgcaa aacaaaacaa aacaaaacaa  360
aaaacaaagt naaaaaccac aaaatagaaa caaacaacaa acnacatcac cacagaacat  420
aaaaatttta aaataaaaca ggctccaaat aacctnggct tccanaatta tnttttcctt  480
ttaanaaaaa atttcncccc cntgntcaat gcccg                                     515

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<210> 9401

<211> 566

<212> DNA

<213> Homo sapiens

<400> 9401

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gctttattag gtcacacaaa acagaatgaa ttancagaaa aatgtatgtt ataaaacagc   60
atttactact tcaatttaat tttttttact aacaattgtg gacctttttg angacactta  120
tgtatgtttt taataaatta tgtacttatt agtacttaat gagcccttcc tgcctcaata  180
taaaattact aaacttggag aattacagat tttattgtag gccctgatgt tagtcacttt  240
ggagaagcta aaaatttggc caaatgaat gatccaatga tcctttaagt tatctttata  300
tttaatatag tgtgatcctg gactacactg atttaaaaca tgctttttga naaatgtctt  360
antaataggg cagtaatctt cagtgtgttt caaacactac ttgcaccaa atccccttag  420
gttgtnnggt attgggtcccc aactaggata anaanacncc gcaaatttgc ttaacacaat  480
gctagccctg cccggccctg ccccaaaatn ncgaattatt aatctgatcc gaaataagcc  540

```

cnaaaaaggc ctttccaaaa tttccn

566

<210> 9402

<211> 576

<212> DNA

<213> Homo sapiens

<400> 9402

aagtgggtgt tgttttaagt cgtaagtttg gagtcatttg ttatacagaa atacattact 60
 gtagcatcat tacatatact tttctctgta acctccgttt tcctgaaaag gaaaaatggt 120
 cttcaagggt ctccagggtc cactgtagtc tggttcctga cnacttctcc aggttttcca 180
 ttaaacaggt aaagtcttta ttgtttatta atatgtctaa gtactccatg tctatgatcg 240
 tcctcacttt atcaaccctg tctgaagttt caactgcatt tccccctctc aattgggcca 300
 ccatctctta attttctact cttcaagggt tagcataana atggcattta ttcctaaaac 360
 gtctgttctg tcaactctga atttattctt atggccaagt tcgttcgaaa acctccatgc 420
 cccgtgagaa tatttgtgtt tngttttgtt gtttnnngct gttgttggtt tgtttggtt 480
 tgaaanggaa tctcactccg tatccaaact ggaatacatg gngcaatctc tgctcatggc 540
 aaccccaact ccangggcaa acaaaccenn gcctca 576

<210> 9403

<211> 514

<212> DNA

<213> Homo sapiens

<400> 9403

ggttcatggt ctttattgaa caccttacat gggatatggac agggcctatg ggtggggcaa 60
 ggcancaatn acagcctcag tgaantcatg gcaagtaaca tanccacca tgtcaaangt 120
 tcgaacctgt gggggaaaat catcatcatc catgtggcct gggctccatc ctaacaatcc 180
 ccatcaccac ccaacagtct gtcccctaag gaanccggcc caaggacaac ctaggctcta 240

cccancaagg tgaccatggt ccactgctta aangcacaag gtctcttccc tggtagactg 300
 cactgaangg tatggggaat gtggtccttg caaggttga aaaaataaag ggctctaact 360
 ccctttaatc tgcaggtgac cgatgacana ctigatgaaa tcggttgtgg tgctgttacc 420
 ccccatgttt ccaattcncc ncctgncaac ttigattacc tcctccncnc atcttcnaaa 480
 attcttgaat taaaccccna aataaaaacc cccc 514

<210> 9404

<211> 364

<212> DNA

<213> Homo sapiens

<400> 9404

atcatatcat aatgtctggt gccattcctt gcaaccattt aatgtingtt ttaaataaat 60
 aaatgaacat tgctcacaaa gataagtaac tgaaatgcc a gcagggacct tactgcatct 120
 canaaagtga agtaaacttc atttccagct cccaattct atcaactgtg agaagctaata 180
 aaactcctca tganttctgg ccattccctan anacttacat cctcactgac tctctgcctt 240
 cagcttttgt gcatgtgcaa gcaggttctt ttttttgtgc tttattaacc catgttagga 300
 attgtggccn ctccactggt ttccacacac acacnncnaa aatctntgen cagtaccnt 360
 nggt 364

<210> 9405

<211> 378

<212> DNA

<213> Homo sapiens

<400> 9405

ggaagcgaac atttatttac ttttttccc cacacaattc ctaacagttc aattaaaaat 60
 gagaggtaaa gcactagggc tgaacaagtt aggaaaatta agcctgaaat agtctaaaga 120
 taagacatag tctaaacata acagaattct tctaggcttc tatanatgct ctcactgtat 180

acacttaggc acttattcat ctttatctgc aagccccatt tctaccaacg gcataatgaac 240
 tggatgctgt tcatcgatcat ataatgtcac tatctgttct ggtgctggag ccatggacac 300
 ancataaant tnttttcctt gaaaacagtc tntentance cacagtgcct ccatgctcca 360
 tttgggacaa natggtat 378

<210> 9406

<211> 462

<212> DNA

<213> Homo sapiens

<400> 9406

aaaagaaaa atgtttatta taggcaacaa caccaatggg aactggtatt tgtctacacc 60
 aaggagtgct aatttttcat cttccaatgg cggcctcaac cttgaggcga atccactggc 120
 gaaagatgcc tttctaggaa gcanagctcc ctgactgggc taagatagtt canattgatc 180
 ttaggtcaat ggtaagacct atgtntttca tgaagtcttg gcttttcggc gctgggtcgc 240
 ccaaagcana atggagacgg atagagtggg ggctcccaana atcccgaana acataancat 300
 gagaacgaac cctggcgcat accttgtntc catggaaaac catcacacaa acacactgcc 360
 aaaaanacctg gaccatccgg tncncaaaat ccattctcag gacacatttc ctgggtcccc 420
 attntnttg cnaaggtcct tttgcccttn aaaaatttgg tt 462

<210> 9407

<211> 578

<212> DNA

<213> Homo sapiens

<400> 9407

cagaaagaaa gaagtcaaatt tttatttggt tgtanatgac atgaccttct gtaaagaaaa 60
 tcacaaagag tcagccaaaa tgcaactgga actaacaac acattcagtt tatttgcaga 120
 atagaataac agcaccaaaa attagttgaa tttcataca ttaacaataa ataattttaa 180

aagaaaatta aaaaccaatt ccatttgcta aagaacttaa agtaagaaat atttaggaat 240
 aaacataaaa agtgaggttt gtaccttgaa atctataaac attgatcaaa atgattaaaa 300
 acatgtataa atagatataa atcccatact gatttgaaaa atgaatatcg ctcaatgatt 360
 atatactcaa ttgtgattta gattcggtac aatactcnta gaagtctcta tacttttggt 420
 taaagaaaca aaaaacaggc caggcccagt ggntccctcc cgttatcccc accctttggg 480
 anggggaatc nggtggatct taattccaaa anaaaaacct tcctggctaa cccggtgaaa 540
 cccntccctt ctaaaaaccc aaaatttccc nngtntgg 578

<210> 9408

<211> 552

<212> DNA

<213> Homo sapiens

<400> 9408

atattaactt tccaaagcat ccaaaacttt catgatctgc tgttttatgg ctttagttgc 60
 atcccctgca ttiggaatca aatacctttc gattgccaaag atttctattc ctgaagcact 120
 gctatttcca tacttgaagg taatgagttc aggatgtttt tttttggatg taattttaac 180
 tacagaattc agcgcttgtc gagactgtat ataagccaat cctttccgtg aaacaatctc 240
 ccttaaacag tacatatgtg ttgcagtaac caacagatga ctgggaaaca tntntccact 300
 ttcttttact tctttacaag ggaaaatgat ntttgacatc tggtttgttt atccaantct 360
 gaatgtttac aaccnctttt ctatcatcat ctgacattga aagaactgtc aattncanct 420
 gtgtcgtatc ctctcnacc ccaatgctga aaacaggctt tacnccacgg taagggtgnc 480
 cactctgtca tggctgctcc catgccgatc cacnggaatt gaantttttn ctataaactg 540
 anacttttnc cc 552

<210> 9409

<211> 513

<212> DNA

<213> Homo sapiens

<400> 9409

cagtgtttgt caaatTTaat aaattatata caatttttagt aatttagagc tatectacta 60
 tatagtcggt aacatttttaa tgggatagtt atttttatca aagactattc catggggttg 120
 aatactataa aatttactca aatacacaat tgctcagcca tagtttacta cttatttaca 180
 taaatagata ttacacattt ccatactcag ctgaataaaa ccttaaggtc taggtataaa 240
 ggtaaattgg atggaatgta aacatttctat tacattaaat agattcatta aaatctgttc 300
 ccagaagttt tcaaaactga caagaaagta aagagagtgc cttatgtcct caatagcata 360
 atcctggagt cacacttcta gagctatagg atataataat gaatggaaaa aaccctaata 420
 ttttaggaaa aaaaaataat nggctattta naacctaata aaaacnttat gtnaataagg 480
 gaacncnang gtgatgggta taaaaccccc etc 513

<210> 9410

<211> 572

<212> DNA

<213> Homo sapiens

<400> 9410

attttgtcca tattcatata tttatagagc tagtatgtca aaaactttac acagtgcacac 60
 cattagcccc tggccccacc ctctccttcc cacttctgtg ttcgaaccta cttagacctc 120
 gcacacaaag gttgatcaaa ggcagtggcc acctcagact antgcaatgc cagtcctgca 180
 gggganaagc ctggcaaggt gaggggtgagt ctcccacagt ccaagacagg tcccagacct 240
 tggccccacc ancgaggaca aaggggcctc angtctccaa acttaactca tgnagaaca 300
 actgcccacc attgtccctg ccattgccaac ttatatangc atgaccctgg cccancaatg 360
 aagcaggctg aagggcatgg cgggctcaag ccnnaaaact gaaggtggca agtgcggaat 420
 aacnctggcg ggcattgttc tcacaataca actcgtcacc accaaaaatt gccncccatc 480
 tccagttcan ccacaateng cacagttttt caaccgggt ggcgtaccgg ccnctgnat 540
 tccccaacct gttcccanac tggatttcnc tc 572

<210> 9411

<211> 553

<212> DNA

<213> Homo sapiens

<400> 9411

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aacttaaaaa gttatttatt aaacaagtta aacacaacta aaagtatatt tagaggtcca 60
agattcaagt atttttgtca aactttctaa tgataagggg aatgataaaa attgaacaga 120
tataaaaaat attcttaaac aaatattaaa gcacatggaa aattcagaaa taaaaacaca 180
ccaccatata aagaaatcaa aatatttcat atgtttttta atgcttatgg tatgagagcc 240
aaattgtcta tttccaggtt aataaacaat atataagctc acctttttaa aggtatcata 300
ctttgtgtca tatagaaata attttgaaa cagtatgtgt tgggtgtgta aattgtccac 360
attaagcnaa acatatttta catatgaata ttttcantta tacttactgg aaaacaaacc 420
aaaaaacttn taatttaaca tcctgaattg aaaataatit ggattgaaaa tccgccaaan 480
tccacatctt accncenaat ttttttcaaa aanattntcc aantttttaa aaaaaattgc 540
tcccccatcc cnt 553

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<210> 9412

<211> 486

<212> DNA

<213> Homo sapiens

<400> 9412

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aaaagtttca aacaagtttt atttaaaagt gtaatgactt acatttattt ttcatttata 60
tagctttgtt aatttagagt aacacatttt aaaatttcta gtttttantt cctctggttg 120
aanatgggaa gcgttgactg aaacaagaaa ttaagtcttt tcggacaact tgaatttcca 180
acttgggcat aattattaaa atgcttagta nataacttca ggattgtggc tgtggccatt 240
accaaatttg aaagaaaaaa gtgacttgaa atgaaagtgc attgcagttc cngtaacaaa 300
tagatgataa actttattta agtttaattt atcagaaact tacagaaaag ctggagttac 360

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tataaaaata ttttttttcc tgaatcaata ngttactgct tcactccttg angtatattt 420
ctnacaaccc anaatatattt ctacatanat acaccagccc tcnnaagttg aagaaaatta 480
acaagg 486

<210> 9413

<211> 588

<212> DNA

<213> Homo sapiens

<400> 9413

aggatcaaaa atttattaaa aaccaattat atcaacaggc atcaagtcta canattcagg 60
ttacaccana ccatgaagta aattctgtcc ccatccacac catacttgcc aggtcttcta 120
gactcctgag ccatctccct atatcctcat ccaaattccc aaattacagg cttaggtttt 180
tggttttggtt ttcaatccaa tggaggtggg ggcagctatg tnttgatttt tggcaccacc 240
ctgtggtcat acctaaatat tgcaccttct actcaatccc acaaaggga agaaacatgt 300
tntntangg cccanccnac ttcaaatctc agctctactt cccagtaaaa ctgtgggcaa 360
gcccattaac tggaagggcc gtgaattata accatgttaa aaatgtnttt tcccanaacc 420
caaaaatggg aatgactttt taaaaataaa aaccttnaaa aaagtnttt ttccccctta 480
atattgttgt cntacctttt nccatnaaaa ttngggaacc cccccaatt tcttaaaagg 540
tggaagga acctccaacc ntccaaga aaccactcca attccctt 588

<210> 9414

<211> 549

<212> DNA

<213> Homo sapiens

<400> 9414

gagatggagt ttgactcttg ttgccaagc tggantgcaa tgggtgatc tcagctcact 60
gcaacctcca cctctaccac ctgcctcagc ctccaagta gctgggatta caggctactg 120

ccaccacgcc tggataatTT ttgtatTTTT agtaaanatg gggtttcact atgttggcca 180
 ggctggctctt gaactcctga cctcaggtga tccacctgcc ttggcctccc aaagtgtgg 240
 gacagtgtga gccactgctc ctggccaact ttttaaagtc ttctgtaagt ttctgattat 300
 actttagaag ctttacagtt ttgcctttca catttaaate ttcaatccac ttggaactga 360
 attttattta atacttacca tatggatacc caattgtctc aaacatcatt tattgaaaaa 420
 tctccatctt ttacaccgat ccacatatgt ttgtttccaa aaatggntaa gttcatgttc 480
 tggccttccc ctaanttccc tcccatccna aaattanaac ccccnttcct taaaaaacia 540
 tntnagttc 549

<210> 9415

<211> 464

<212> DNA

<213> Homo sapiens

<400> 9415

ccggtagaaa gggtttattt atgcgcaacg gttcacacia gccttcctga aattccactt 60
 tacagtaaat aaagctgtgc gtttccccctt cccatgcaca actgcgtatc aatctacaac 120
 tgtcatttaa ctgtgaaaaa atagancgtc tccccctttg tcatcgttct ggtaacattt 180
 ggagtagcat ctgacagaac ggagctgctc actcctggac cggttatitg gttaaaaccc 240
 aaaatgttag gtcgaaanaa tcaatcgtea cccaatacaa ataaatattg cgttatgaaa 300
 nanacgggca gantcccacg gtatcccttt ttaaagcggc atttccagca cagcagcgtg 360
 gcgctcacag anaccancan ggcgagctc tgggatgcca catgggacac ggctgcaagt 420
 anccgtangc accgtcccgc cgcaagctc ctccaccnaa cctt 464

<210> 9416

<211> 540

<212> DNA

<213> Homo sapiens

<400> 9416

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gagcatttgc aaaatgttct ctatttatat ttttaaaaat ctgatacatg taagtttttc 60
tggcanattc tttttgtatg ttacaaaaca aaacatcaaa agctcagagt aagataagaa 120
tccctttttc ttanaaaggc caagcanata cttcttgaca tcatgtcctt tatacaatgg 180
catattgttc atataaaagg tctcttatcc tataaaaatc ttgacaaagg cagccctcta 240
atccaatgcg tccagtttcc gtctgcgga ctgctacttg attgttgcaa acaagtacac 300
ctcctacaaa ttcagcttga atccccctcc gtaaganaac ttgcttgaag tctgacagcc 360
ttggttcatt cataaaaact gactgatgtc caggaactca tgangtggca aggggtccaaa 420
gtangaatga tctcactttc tccacctgtt tcccttttct ncacctccaa anaaactttc 480
catggccttt gggtgttgct ataacnctaa aatctgangg aacttcccct tgggtcccn 540
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<210> 9417

<211> 587

<212> DNA

<213> Homo sapiens

<400> 9417

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gcctcagaag tttatcaata acctcttata tacacatatg ttttcncaa agtggttgan 60
aatcatttta taccatcctt taaaagaagt ccaatggntg anaactctat aatgagacac 120
agtgggacag aaattatcat gactttcaat gatcttttct tccccctaac tttaatatcc 180
tttagttggg gagagaaaga agtccatttt catctgctgt atctaagatt ttacagatca 240
ctggagattc aaccccnaga atatattgac aggagtgagg ctctagcata tatacagtaa 300
cagcatgagg tgaatctgat tctttgcaat ttagttttac agtcacctgt cttggtttgt 360
cagttatata acaaatatct ccatttccat aaaaatgtga caccatcctg actgtctggg 420
taccatcgtc ttgaanatga taagctctag cagtattctc cttaacccat tccatatgct 480
cttcttggtt cctgttcccg acaaccacag aaggtttccc nctatccctg tccncttggt 540
attgangttc atntttgccc nacnaaatc cttttccccc caccgac 587
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<210> 9418

<211> 433

<212> DNA

<213> Homo sapiens

<400> 9418

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aagaactcgg gttttataca atagaatggt ttctagcaga tgcctcttgt tttaatatat 60
taaaattttg caaagccctt tgantactg ccttagtcta cccactgtcc ttttgttatg 120
aggtaaanga tctcatgaca ccatacacac aaacccatca ttgcctgtga atgcacgtng 180
ggncagaatt cccagttcc cgctcctctg anggttgata ctgctgggaa tgccaaccac 240
tccacaagca gaggggaagcc ccctcaggcc tgcagganga nccgcancag tgtgtccaat 300
tcaaaccagc agcaaagaac ctgacatttt cccatccatc tatgangaaa gccatctcac 360
anaacatgga catnngcaac ttgctctccc ncaccaaggg atgggaatct ctcctaccta 420
tantctccc tgc 433
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<210> 9419

<211> 591

<212> DNA

<213> Homo sapiens

<400> 9419

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gtttttcttt tnatttttat tttaaattct ggggtacatg tgcaggcttg ttacatgaat 60
atattgtgtg ctgctgaagt ttggacttct aacgaaccca tcacccaaat agggaacata 120
gtattcaata ggtagctttt taaccctgc cctcttctt ccttgcccc cttttggant 180
cctcagtgtt tatttctcca gtctttatgt ccaagtgcac acttatttta aacctagttt 240
ccanaccttg tggttgtccc atcanatggg tatgaangta ccatggaacc cataaggcat 300
ctgcacaggt ncctctgctc ggcccagctc ttcaaanttc ttggcatcca aaactaagan 360
aaaattgctt tcattctggt tgggagtgat caccacacaa aagaataacc caccatcttc 420
ttcattggtt cctgggtgct ggaacaaaaa cangttctga agganaaaac cacttctctc 480
caaaccacat caancttgat naaaaaatcc cccctaaatg cccaaaaccc canccctaaa 540
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aaaaataaac nttttgnccc tgaatccatc ctntnaattg aagaaatcca t 591

<210> 9420

<211> 444

<212> DNA

<213> Homo sapiens

<400> 9420

gagatggagt ctcgctctgt ctcgcaggct ggagtgcagt ggcgcgatct cagctcattg 60
 caacctccac gtgccagggt cagtgattct cctctttatt ttcttgaagg tgccaagctc 120
 gtcctgtct cgggcatttt gttcgtgtg ttctctcatt ccanaacctc cticccttgc 180
 tcctettaca gccggtctct catcttccca ctttcaacgg aggtagcaca tcctcgcaag 240
 agtttctcc gatgccccag gccaagggtat tctccatcac ctcatcctgc tcttggcctg 300
 ggtcaccggt ggtcataaaa attatgcaaa aatgttcatt tgttcatgaa ctgcgtnttt 360
 cttantcct ttgtggggan aatccagggt naatcncctc ccaccatgtt ggaacanaat 420
 taaataaaaa aatattcnct ggaa 444

<210> 9421

<211> 433

<212> DNA

<213> Homo sapiens

<400> 9421

ccatatcatt gtcacagcac cggagagcac tgtacaaaat gtccaccagg aaaaccaaaa 60
 tccttccttt gatcttcatt tagccaacct atcagtttct ggtataaaaa ctgcaccgca 120
 ggattttttt gtacaagctt ggctatttca anaggttttg cttggacaat actctgtttt 180
 tcatcaccaa gtagcathtt aaatactcgg ctigaanaaa aggagtcaag cagagtagaa 240
 agaaacctta gatgttgctc tgactttcgt tcattgacat aattaatact tataatctgcg 300
 agtttacaga ctaagtcttc caaaggtttt ttccttanag ganacaaaag gcctgaaaaa 360

attatgagtg anaaaaaggt tcanttgtta attccccanc ctcaatcttc ccncctctg 420
aanaaacat ttt 433

<210> 9422

<211> 459

<212> DNA

<213> Homo sapiens

<400> 9422

ccatttttct ttgcttattt tcttcatgtt tatctgagta catggaccag aacattcact 60
gtattatcat gaataattca gcatcttaca agtcactctc caagcaggac anattaaggc 120
agcccgggtg ggacataatc acatctatgg ctacaaggaa cacgcaacag aaaatcagat 180
tccaaccaag caaaaggcng cttgtttttt tttttctttg aaacacagtc tcgctctgtc 240
acccangctg gagtgtggta cgcgatttca gctcactgca acctccgcct cccangttca 300
antgattctc cccctcacct cccaaatact gggaacacag gtgcncacca ccacacctgg 360
ctaatttttt gtntttttan taaaaanagg gtttcccctt gttggccaag ctggtctcca 420
aatattgaac ccnggntat ntgccccct nggcccccc 459

<210> 9423

<211> 599

<212> DNA

<213> Homo sapiens

<400> 9423

ccgtctaaca ttccctttat tgettacgtc catattccaa tgaatacaat aaactccttt 60
ttaaaaaagt aagggnatg aaaagccntt tgtgttagtt ccatgttatt ttaaaattcc 120
tattgggnta ataaaagcat ttgcactata gaaccagaga catctagaaa agcacatgat 180
agattttttt gcaagcagaa tgcctgaaac attacattta cctcatggca caatgagaca 240
gtcaccaaatt ccaatgtctg cattagaacg atacagctac tattacagtt gcaaaacct 300

taatcagctt atccacatat gtacagctgg gtccccacgt gacaaaatct aaaggaagaa 360
 cagcatctaa ctgcacctgt gctccattcc ctcacagata agaactgtga cattttggct 420
 ctttccatgt tgtgctgctc ttccccaaaa gccagggtcn tncaatactg aaaaacatgg 480
 acaggtctgt tcnttcaaaa cctgaatcen nccgcccgat ccgtgtctaa cgttcgaaaa 540
 tttentccac cncgtccccg angaaacccc cctgaataaa ttctccaaag ggaactgcc 599

<210> 9424

<211> 495

<212> DNA

<213> Homo sapiens

<400> 9424

gtagagacag agtctatgtt gaccaggctg gtctanaact cctgggcctc aagcaatcct 60
 cctgccttgg tctccaaatg gagagtatat tattaaaccc naaagagtga aatggagagt 120
 caggntaaac acagtgtaat tacaagccac actactatac cacaggcatc attactctgc 180
 ttttcctaag ccctactttc gtaaaattgt gtatactaaa tatctttgtt tatctgacaa 240
 agaacaggaa gaaagaattc atacattggc actaccatta attgcctaca gtttctttca 300
 ctattttacc taccagatat taggatgtat gacacaaatg taggatgtct aacagaanaa 360
 caatgcaata ttgcaacata cagttaagta ctcactcnac gttatcaata agttcttgga 420
 aattgcactt taagcccaag atngataacg aaacnntttt taccnnnggc tanttgataa 480
 aacaagaatt taatt 495

<210> 9425

<211> 581

<212> DNA

<213> Homo sapiens

<400> 9425

aatggctaga actgtcttaa tttctggaat aagttttttg tagtaaccaa aagtggcggc 60

aaagttacat cggaacaagg gattcttaaa ggactgcact gcanangaaa gtacagangt 120
 taggagtgtt ttacactgta tgactggaga ccagtaagg aaaaaataaa accatttcac 180
 gtttataccc agatttaaga ttcctcagta aaccagttgt actacttttc cattcttatac 240
 tctcaacaca ttcctgaaat cctggcactc catcatactt tactagccca accagtctaa 300
 ctcaaagatt cccccaactt gcgtattaac atttcaatgg ctttgttctc aactanaatg 360
 ttcttccctt angctatct gaagtctatg tttaaaggaa caattctaata gtccatcttc 420
 ctccaaattt tctctcatca caagtacaaa aatagtctct cagggtaaat ttaaaaacct 480
 gcatttacct cntcaagcac ataaaacctt cttgtgacct ttgaanaag cgcatttanc 540
 ctttaaatga tcttgtcttg cccaaaaagn acccccccta a 581

<210> 9426

<211> 530

<212> DNA

<213> Homo sapiens

<400> 9426

gaaatggaat ctggntctgt ctcttgctct gtctcccang ctggantaca ntggcgcgaa 60
 ctgggntcac tgcaagctcc ncctcccggg gtcattgcat tctcctgcct caacctcccn 120
 aataactggg aatacagggtg cctgccacca tgcctgggct aatttcttgt attttttttag 180
 taaanactgg gtttcaccgt gtagccagg atgctctcga tctcctgacc tcgtgatcca 240
 cctgcctcag cctcccaaaa tgctgggatt acaggcatga gccactgcac ctggcccact 300
 ccactttttc ttaatgggga cacttctct gaacaacang gacaaatntg ggaatggcac 360
 aananaatcc ccatactcct attagttctt atttgaatgg gcctggtgaa atggaaaaat 420
 aatgggctct gttactaanc actgtnnac tttggacaag tccttaacct ctctaagccc 480
 gttttcnccn ctgttaaatg gantcatccc tgnccccctc tcataaccct 530

<210> 9427

<211> 547

<212> DNA

<213> Homo sapiens

<400> 9427

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gaaaaaataa aatttactgt ttatttcttt gttacacaaa gggggtccaa nanatcttan   60
tccatctcct atgtcctttt ggcataatt acancacaat aatggcaagc tagattanga  120
ntctagctca ggggtcaagtt tttccacttt aatgactatc tctgggagct aaagcggcag  180
caccagcttg ttggttctct gcctctgact ccgacaacac ttcttcctt tatttttaca  240
ggcttattac tggcctcctc ctcttcatct gaanactcat cgagctccca ttcattcatct  300
atgtccattt caaatactct cacatgacga anatttgagc ttaactaaaa aagaaaagcc  360
ataaaagcat ttttaaatta atggcttata ntatatnaag aattanaaat cagaagtctg  420
aatcnaagaa tggttttata ggaaagttat attccntcn attacaaca aaatcnataa  480
attccccct ctttttgttt taaaaaatc ccntttacca cngttggcat ttcctganaa  540
ttaaate                                         547

```

<210> 9428

<211> 416

<212> DNA

<213> Homo sapiens

<400> 9428

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acaattgtaa aaaaattttt tataacaagg atggactgat tttcatattt ccaaatacana   60
ntcaactgta catttacaca naattgtctt tgcataagc ccaagangga acagcataaa  120
aatgagtgtt tctgtagccc ctttattttt gctgatcaac agtttggtan aaaancagct  180
gcaggatatgt tacctaaggt ctganacagt anaanaatca gangtgtcat gaattcncct  240
gtaaacaacc ttatgcctga acatcagcta attctggagg aantggagtc ttaggatgct  300
tgctctcaaa ntgctgcttg aaagtcttaa ggtctggcat ttgtgtccta canacagtgc  360
aggtatatat taaggcagct ttggcagcac cnntnggtca ngtcntgtt tcccn      416

```

<210> 9429

<211> 587

<212> DNA

<213> Homo sapiens

<400> 9429

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gattgcactg ttatatctgt tttattggta gtctgaagtc tgtgaggctt tccatttgaa 60
accctatatt tcaggggctt atgancaggc agttgaaaan aacttaacca gcaaaaactt 120
ggcattcatg atcttgggtc agtataaggt acttgcttta acaaatttta agtagtcagg 180
tcttttttaa agttgtaagg agcacaaaga ggaataaagg aatttctttg gttaaacaga 240
tagggaatat tttccagcc aacttatccc aattggattt atatagcaaa ctttcttctt 300
ccagaaattt ttttaagtatg tncattccta tgttccagtt gccacaanat cttgcctcaa 360
gattttcctt ttcctttgct gtagtttata ncaaataccc tctgcctctg ctctttttct 420
tcctatttat gcttttttaa ttcttcntaa tgtaatatat ttacactaaa aatgggtggt 480
ngntttcctt tggctttttt ccccccnccta cagtaccatt tgaaatttac ctattgggtga 540
aaaacatatt actttgaaaa annttttttaa ttaccttgat tgcttna 587

```

<210> 9430

<211> 384

<212> DNA

<213> Homo sapiens

<400> 9430

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gtctagaaac aaagaacagg ctttattttt gttattttga atacaggat tgtattgtag 60
acatctgtta gtctcataat tcagtatggc caacacacag aaattaaaag tnnaaacaaa 120
atgagggcnc acttgctcct gtccttggct tggccccctc aacctccaaa anaactgtcc 180
tccccattgt catatccttt ccttgctacg aaagacaaaa caaatgatg cccccaagaa 240
aagtcccaga ggctctctcc cagcagtcag tgggatgaag caagacactg ttaccttggg 300
tnggatggag aaaccaccag gtcctncca canaagccac agtgggatgg anaaccctg 360
gtccatacca ccgaaggcac ntnt 384

```

<210> 9431

<211> 470

<212> DNA

<213> Homo sapiens

<400> 9431

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atgttcaaaa tagtttttaa tcataagctt tatatacaaa ttgctgtaca gtcactctaa   60
taaagtgaag tagtgagtga aaagtacaaa acacaaagcc cccacgttcc ccttggtgaa  120
gtatcaaagg atcactcaca gccagaagc cccaaattag tgacaaggta agtggacaag  180
tctgtgaaac aggctaaggc aagtgtgtga aactggctat taaaggcgaa caggctccac  240
tgcagaccan aagcctgagt tcctactgcc caaactgggt ctgtggaaga attaaatgaa  300
atgaatattg atgggccaga accttctagt agacctgcga actcataaaa atggtatata  360
ttatgctaaa aatagtttag cagtagtgta nctcagtctc tccncccc nattaagttt  420
tgacaatacn ccaattccta aacatnaanc tgttttaaac nttaattaac          470
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<210> 9432

<211> 576

<212> DNA

<213> Homo sapiens

<400> 9432

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aaaatcttta tcatgagtaa tctcatcatt cttatatanat tccgatcctg atgtggttgc   60
tacaattaaa caanattttt ctcttaaccg cttcactgtg tcaaacatct gaagtatcca  120
cgttatcatg tccttctggc cttctaactg gggaattcct ttgagttttt ccaaaagcat  180
ttgtatattc atggctgaac ttcccaatct tgaagcctta tgataaaagt caaatgttac  240
ttcttcttca ggagcttttt gaagctgttg cttctcttct agtaaacca atgccagaat  300
atgaaaagcc atttgagca tcccttcggt ccacaagtta gaatctgtgt ctattgcccg  360
ctcaaatacg gtcctgagaa tgtacatcat gatatcacag ttganaaagt taatcacttt  420
```

gctgaaagca gggcagaatt caggaagtgg tggggggggg aaatgctcca ccttgttttc 480
 tggttttcnc ccttcctccg cntanntttc accctgctaa gctgggtttt ggaattatna 540
 aaaaattntt ttggaattct tccgngaacc cccttt 576

<210> 9433

<211> 592

<212> DNA

<213> Homo sapiens

<400> 9433

aaaaaaataa tttcaacttt tatttttagat tctaagggtg catgtgcaga ntgcaggttg 60
 ttacatgggt atattgtgtg atactgaggt ttgtggtatg aatgatecca tcatccaggt 120
 tgtgagcata gtaccaata catagtcttt cagcccttgc cctccccgt cccctcgctc 180
 cccccgccgc agtcctcagt gtctatcggt cccatcttta tgccttgtg taccacagc 240
 accattcttt ttgaagcctg atttacttta tatcaattga acttcagcag ccacactgca 300
 gcctatggct gtgtggtatg aggggaaaat cacactgatt gattacatgc gattccagtt 360
 ctggtacctt ccttttgcac ctcaaaaagt tataagaaga atcaaaactg tgggantctg 420
 ccaacatatg ctggtattca tgtctaact nggttagatc aactactact gtctcccttt 480
 attccgcttt ataaattacc gcatccgttc tgaaccaaata ctaatgtttt cacccttata 540
 cacccttaa aaaagcaagg ttggtgtcnt aaaccaaccc tgggttccca tt 592

<210> 9434

<211> 438

<212> DNA

<213> Homo sapiens

<400> 9434

ggctgagtag ctgattgcag gttataagaa aagttctttg atcttccact gttctcaagg 60
 agatgtatac actgtaggtt gctcactgag ttgagacgca gcacagaana ngcttttaca 120

gatcttgtag gatgatgtat tttcccttcg tgagaacaac catagatttg ctttaagcact 180
 gagtgcttgg tggactttgt gcctgaggtg cccttggatg gactcttggg ggccttgctt 240
 actgcagtgg tttgggggaa ttttagttcc agttccttcc tccaaacctg gaggagcaat 300
 gctgtaaact cttgcctcca tctgtccaca tctccagctc caagctgctt catatgccna 360
 aggtgggaca ggtgcttcct ganctggtan ctccccagg cncnctggga atnactgctg 420
 ctgccttggt cctttingg 438

<210> 9435

<211> 350

<212> DNA

<213> Homo sapiens

<400> 9435

gtttttgctt tcccanaat ataacatgga gtgtttttcc agaaatctta aaatagaggg 60
 attaggcttt ttgtttgtaa gtaagttttt ggaaaaaat tatattctac cctagctcct 120
 aactatccca aaataaaccc aaaggctttt gctttcacgg ttaaaaaana ttatatacgtt 180
 ttcttcaaat gtcaaaaatg aaanggtccc tcnggacagc aatatcccc ctagttcaac 240
 acccaccttt gggaaggga aaaaagggtg ggganangca actacaactg acccaaattc 300
 ccanncccta nggtgctttg tatantaaaa atctcnattc aaatacaaca 350

<210> 9436

<211> 485

<212> DNA

<213> Homo sapiens

<400> 9436

atgtttggaa aaaagggtcag gggacacctt gcctctagt gacaagggcc ctgancttta 60
 cacagccctc catatttatt aggcaaaaana aatantgaga aggggtgtgg aaaaaaaagt 120
 cagctgctcg gtccanaata ngcttgcaan actgcattcc tcnaacaata ggctctaaat 180

gtcccagtaa ataacctcaa nganccgggg ccagggaacg atggccctca ncaaaccttc 240
 tgggcaggca cagaancgag ttgtcccaca ttctgtattc atgataaaca gtttgctggt 300
 tgatcatgta ncttccactg gaatgctgan ttggtcacca tccctttggc ctttttggct 360
 cccaacattt ccccttctt gtttatgtat taaatnaaaa aatnagggc caagctgggt 420
 nctttcattc tcccattggc agtccatccg attttncna ctatgaacgn aaaaacgaaa 480
 actaa 485

<210> 9437

<211> 597

<212> DNA

<213> Homo sapiens

<400> 9437

gcagctcttc agccaaaatg acactcatan tgcactggaa aaagtaaggc actccacatt 60
 ccgtctccg tcaaacacac catacagggc ttgcgggttg tcacanaant tattcacga 120
 cagggtctgc acacacaact tgttttttac cccgaagct tcagtgtaac catgactcca 180
 tacagctggg gctccggaag cgtctcctgt anaaggctga tcaatcttga aacagcggat 240
 attattcagt anttccaggg ttttgtgatc aaagacaaag cgcggtttc cantcaggtc 300
 tagctcctgc agtttgggaa gcaangtttc tggtaatgtn acttcactta gctcattaca 360
 gctcagggtc acacacttga tctctgggaa ctgcataact tccggaaaaa ctccatgcat 420
 tggantnanc aatcacggtg ttcatcccc gcaatcataa tcttgtttgg ganagctttc 480
 acctatnccc ctnaaataat tcttccattt ccccntttc cccattttac tttgctgnaa 540
 aaccncaaat tcggttttag gccctttnaa gatntccaat tgggggtttc ccttnan 597

<210> 9438

<211> 431

<212> DNA

<213> Homo sapiens

<400> 9438

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aattaagtag acttttattg ctcaatcaac ttcagtaaca tctccaaaaa aatagttttc 60
atctaacaat tatgaaacaa atttgaaagg caggaigatt cacaatatag acccagtaga 120
ggcttatact tcatataaat gaaaaatata agttctacaa tttaaattgtt tactttggat 180
tttattatag aagaaaatat cattgtaatt ataaaagcca taaaattgg aactgtattg 240
tgaaattaca tcaaggtata agattttata taaatgaaca ataaaattca atttttattt 300
atttaaactg anttaaactg tggaagacaa tctcccccat ggggaagaaa aaaaaaaaaa 360
acctgaata atnaagccn aaagcccn cncnaaaact aatcngtgtg cnaaaatctg 420
attaaaaaa c 431
```

<210> 9439

<211> 586

<212> DNA

<213> Homo sapiens

<400> 9439

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ctgattcaca cgaatactaa cgtttaatcc tgttttcaaa gtccaagatt gaaaacttgc 60
aattaaacac tgagcaagcc acatgtttta gtaatatattc ttaaaaagtc ttaaagaaaa 120
aagtatgata caggacctaa gttttcagt gcatatatac tattaacaca ttcttgaaat 180
ctggtaggtc acatcagtc tgaattaact tttaataata ataataata aaaaactaac 240
tgagctttat actttttcta tgccactata gctttctttc acctcatttt ttaaattgtc 300
atcttcactt tatgccgttc tcagtattct tccaaaaatc ttcgaacagt agtcctctgt 360
ctgatctgag gtcttatcag atcagtttta attggactga gtgtcccttc agatttaattg 420
tctcactggt cccattgaac tcattcttag taccactttc cttnattca atgttttgtgt 480
ctccctctgc tttcccgact accggactca cctacttttt tatcacaat cccnctttcc 540
tccccggna ttcacactgg tcccgccna ntggcccggt gctaaa 586
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<210> 9440

<211> 423

<212> DNA

<213> Homo sapiens

<400> 9440

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ctctaaactt ctcttctcac ttcatttcat tcatttgatc ttcaatcact gatacccttt 60
cttccattta atcaaatcag ctactgaagc ttgtgcatgc atcacgtant tcttgtgcca 120
tggttttcag ctccatcagg tcatttatgg acttatctat gctgtttatt ctcgtaggcc 180
attgtctac tcttttctaa aggtttttaa gcttctttgt gatgggttca aacatcctcc 240
tttagctggg anaantttgt tattaccgat tgtctgaagc cgccttctct cgactcgta 300
aagtcattct ccatacagct ttgttccgct gctggcaang aactcatgtt gctgcctaata 360
ccttcctctg gaancttcat ctcanaaggg naccnccct attaaatttc natncccccc 420
cct 423

```

<210> 9441

<211> 567

<212> DNA

<213> Homo sapiens

<400> 9441

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aggttttcaa atttattagc agaaatatac agtctttaca tttcttcac atttatttat 60
ttatttattt tttagagacag agtttcgctc ttgttgccca ggctggactg caataacacg 120
atctcggtc actgcaacct ctgcctcctg ggttcaagcg antctcctgc ctcagcctcc 180
cgttgggatt acaggcaccc accacctcac ccagctaatt tttgtattt ttagtaaaaa 240
cagggtttca ccacgttggc caggctggtc tcgaactcct gacctcaggt aatccacca 300
tcttggcctc ccaaagtgtt gggattacag gtgtgagcca ccgcgcctgg cttcttcca 360
catttttgtt ctaantttta cccctttctt tcccattat taaataattg gcagtttatc 420
taattggact tgtccaataa ttaactccta anattacttt aaaaaaattt ttgttttttt 480
gaaanaaaaa nccctctgtt tccancctg gattaaaatg gggtttgtct cactcantgc 540
accccccccn ccngttcan cccatcc 567

```

<210> 9442

<211> 573

<212> DNA

<213> Homo sapiens

<400> 9442

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aaatanacag attctcactc tgtcacccan gctggactgc agtggcacia tcttggctca   60
ctgcaacact cttgccttcc aggttcaaga natcttgtgc ctcagcctcc cgagcagctg  120
ggagtacaga cccctgcccc catacccggc taatttttgt agcaaattac tcatttgtct  180
gtctactttt tattataaag attgtggcaa ctctgcttag gactctggat ttttctgccc  240
aattaaggta aaaaaagaaa aaaaaagca accaccacca taatattacc caggaaacca  300
gctgtgttct gtanaaggcc ggcctatcan attcaagttg caagccttat acacagtaag  360
tgtctcatgc acatatccat gangattcac ataagctgcc atcggccccac ataaggataa  420
actgaatatt tcatttttgg ttgttatttc tgtttcttga aattgtttac agccaaagga  480
aattaattta tcntaatgtc taattcccac naaatccctg anaccctgcc attttaagga  540
antnaatcnc catactcnc attaggaaaa aaa                               573

```

<210> 9443

<211> 491

<212> DNA

<213> Homo sapiens

<400> 9443

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gctggagcag caatttccca atttattgaa agtgategct ttgcaaggat gtctaagcta   60
atcccgtcac agaaaggaaa cgcacaggcg cctaggcaga aacttggana ctcaccgcag  120
angccacgtg aaccacggc cacagaaagg caggacggca gaaccatgat ttcccaccga  180
gcgattacna aaacctcttc cccaatagt anacacatct ccaatacaaa cacaggttta  240
taataagtna taggaagtcn atataatata nattatcccc agaaaaaaat caacaatctt  300

```

caaacactgc cctttinntg tgtgttttgt ttttgttgac aggttgaaag catgttgaaa 360
 aaaataaata ttttaagaaaa gcacacacag caccctcact acaagttant tctaaaaggg 420
 ctgcntacca aacncnata tanatctaaa aaaaaccccc ccattaattt ggctttccta 480
 aaattcccn t 491

<210> 9444

<211> 543

<212> DNA

<213> Homo sapiens

<400> 9444

gaacttccta tgataaaacc atctacactt ttctaagtag gaaaaataag ggaatgagtg 60
 tcatgttttt aaaaatttgg ggaaagatca agagtacaga anagcatggg gcaaaaaana 120
 agtttaggtg catttaggtg acatcaataa agcccagttc tttttttttt ttgacaaatg 180
 ggatcatcct ataaacattg ttaggcaa atacaaaatct atctgcgctg tccctagttg 240
 ggcncacat gcncatggc aatctgtctt gctgctgtgc agtccttccc tgggtggctg 300
 caggggcaaa cacagggttt gtnggtcctg ggtcttataa aaatcaggta caaattgaca 360
 cntntattta aaagganaaa ttgccaaatg anacaaaatg ttttccttat gcaaatttca 420
 taatataaat tatanacact gccagtgcac tgttangacc ccncgggctt ggaagggtc 480
 natattattg ggtttacaat aanattgggc cnagttaatn tcaaaaatt actcccccn 540
 ttc 543

<210> 9445

<211> 375

<212> DNA

<213> Homo sapiens

<400> 9445

acctttcca caacatttta ttttaataa aacttcaagt actcttacgt aggtacaaaa 60

aaaatctgat ctatttgcct ccaacaggcc accacaacac acagtagata aaacacagtg 120
 gttacaaacg tcttttaaatt ttatttctga ggcaaggcaa atgggaggga aatgtttcta 180
 tgaaaaata ctgtgtgcgt aggaaattgt cacaatttta ttccacatgg atacaaatga 240
 ttatacttta atttaggccc tgggtggctta aaattatata acaaaataga aaaatggaaa 300
 actaatatcc cctacccctg tttcnaaggc angcnctacc canantaang anaaccccc 360
 ctttttggtg aaaga 375

<210> 9446

<211> 493

<212> DNA

<213> Homo sapiens

<400> 9446

gggtaccana atggttccaa ggtagtact gcttgagctc atttcagctt ctgccatgca 60
 tctttccata ttactgagt ttaaataaat catctcagag agaaaagaaa aactaaatat 120
 agaaaagtgg gagtactttc acgtttaata cgcaaggga taaaatanaa tgtaggaaa 180
 caatttgat ttttttccct aaaatatagg tgactatggg ctantttaca actttccttc 240
 tctcactgaa ataaaaatac atagttaagg aatagggaac aatacataac aggtgacatt 300
 tgacagtttg ggcatattcc ttgttacttt ctaatcttga gaatcacagt ttgctgtttt 360
 agaagtatct ganangttcc agataaaaag cgatggctaa atgctcttaa actttgagcg 420
 tgctggatgc tctaaagttg gagaagaatt tataacanaa ccttacnatg aanaaccnac 480
 ntccnaaccc nct 493

<210> 9447

<211> 496

<212> DNA

<213> Homo sapiens

<400> 9447

ganaacaagt ttgtctcttt ttgcctagcc tggaatgcaa tggtagccatc tcagctcacg 60
 caacctctgc ctccagttct cctgcctcag cctcccgagt agctgggatt acaggcacac 120
 gccaccacac ctggctaatt ttgtatcttt agtananca gggtttact atattggcca 180
 ggctagtctc gaactcctga cctcaggtga tccaccacc ttggcctcct aaagtgctaa 240
 nattacaggc gtnagccact gcaccagcc ttgtatactc tttgtcctc atttcagtga 300
 ananaattaa tgttngagaa aaatggggca acgagagaga gattactgaa aacacttatt 360
 gtgaggaatg aanacctgac tctcaattcc actatganca cnttacaggc agctctggac 420
 acctgaagct aacagtccaa tatttgaata aggctgttac actttcnctt acnggttttg 480
 gncnccccct tnttta 496

<210> 9448

<211> 586

<212> DNA

<213> Homo sapiens

<400> 9448

gagacggaga cttctctgtc gccatgctg gaggcagtg gcactatctc agctcactgc 60
 aagctccgcc tcccgggttc acaccattct cctgcctcag cctcccgagt agctgggact 120
 aaaggnaccc gccaccacgc tcagctaaat tttgtatctt ttagtaaana cagggtttca 180
 ccgtgttagc caggatggtc ttgatctcct gatctcgtga tccacctgcc tcagcctccc 240
 aaagtgtgg gattacaggc atganccact gcaccaggc gttgtatgtg tgtattatan 300
 aatgattaaa tcaagctact taacatatcc ataacctcac ttacttatgt tgtttacatg 360
 tgctatgaaa cttttaaaat ccactctcat ancaattttg aaatatacat tacattatta 420
 ttaactattg tcccatgctg tgcaatgat tttaaaaact tattccccta ttttaacaaa 480
 actttgttaa tatttaatga gtccctcna ataaccnaa cccgtttgaa gcctatgacc 540
 ccaattnaaa ttentttgaa cncctccta gggcgtttta ttnttg 586

<210> 9449

<211> 368

<212> DNA

<213> Homo sapiens

<400> 9449

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ccatttagtg acaggaattt aagcaaggac ctgaagtana atcaactgat tcacacagta 60
gtaaatacaa agtanaacaa tgatcttggc ttgctgtct ggttcagtgg tctgctggaa 120
tgcaatacac aagttaagtc aactgcana ctgttttcta gctgtggccg ctggatgcca 180
cttctagcat agtaaaacta tgtaggagg aatgggaaaa gtgagcacca cttctcacca 240
tgttcccccc tctgctgcc agtctctgct cccatgttgg atgcagcaga aatnccnc 300
cacttggccc aggacanacc aatangaang ggtccaatcc tctactacgg cgaaatcntc 360
tccncaac 368
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<210> 9450

<211> 381

<212> DNA

<213> Homo sapiens

<400> 9450

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anatctttct atgtatttca acccttccaa ctgcagctga tccagctttt catttcgact 60
ttcatctana ggtatgtttt cacacattac aggattgaat ctaaaatagg tgtcaggagg 120
taacaggcca tcaagcatta tatggacttc ttctgtatct gtagcactgt tgataacatt 180
agaaagttaa gttttcaagc ttgtgtntgt taccgtgttt ctcatcac tctcataacg 240
tccagtcccc agggatacta tgcactctaa cggcacatct ggccaaagac atttacactc 300
atgcatanct aatgccgaan ggtnattcan aaacaaactc cancttgatg aanatcattt 360
cccatgcat attctgcnaa a 381
```

<210> 9451

<211> 584

<212> DNA

<213> Homo sapiens

<400> 9451

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ggaaattaaa gtaaactttt aatgcatata ttttaaaaat tcactttcca ttttactatt 60
ttaaagtgca tgtnaaatc ttttccattt ttggtaggt aattaatttg aanaaggga 120
atacaatgct ttactattac taccaacagg attttacaca agaaacatta gtaacttaag 180
ctgtggatcc tgtgaatgtn caactgacac agattttgta aatccatact gggcctggaa 240
cttatgttga ttataaaagt caaagggtaa ttttctttta aagatatatt acttataaaa 300
tattcccga gtatgaattg tgcttttagt ttaggatata tgatttaa at tgatgcacac 360
tgcagatgaa tgtttacccc tgctgtngat ttaaagaaca gcatanatat ctcaagaanc 420
ccnaataaaa ttaatttttc cccccctgt ntaactcctt aaggatttca tccccaaagc 480
tatccanaaa accccctact ttaaccaanc cnttggttaa tttattaccg gatacaaaat 540
ncnccaacce atttttgggt naaattaaat gaacttcccc ctta 584

```

<210> 9452

<211> 532

<212> DNA

<213> Homo sapiens

<400> 9452

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gacaatggaa atgtttattg ctgggtggtt ggtctgtcat ttcctaaang acatagctgg 60
ccagcagatt ttcatttctt ttttacaaa taaacaaatg cctactttat tttttatata 120
cagaaaatta tatanaaaca ccacacaaac tgcttgaaat acaaatactt ttgggtttac 180
ttatcaaagt aaaaaataac aaaaatctta tcagttaa at aaaaagtga cattctttat 240
caagccttct taaacactga aacgcacgca tttttatgct catgttcttt agcagtattt 300
ctcccccttt gccctcatt cccctaaatt gtttcaatga gttcatctgt agaatgaana 360
ttgttacctt tcttaatgct acttactttt tattatctca atatcaagac caatctagac 420
ttttttgtct cttacatgtg aaatggaagt ttaaaaagga aaaatcccn cccctttttt 480
agaaaacctt naaaaaacce ntnnncacct tttcaggggg tgaaaccct tn 532

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<210> 9453

<211> 479

<212> DNA

<213> Homo sapiens

<400> 9453

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gtcttcagtg aagtttactg tatattataa acagtcatag aattcaaaga caatcatata   60
accaactctt ttggatggct taagatgtgc caggtactgt gctaaggaca agagatataa  120
ccagatacaa accagtcctc atcctcaatc attacttatt cactcaacaa atatTTTTga  180
gtacttaccc tgcaccaggc actagggata taacagataa aaattaagtc tctcgcttca  240
tgaagctttc attctgatag agggagacgg caataagcaa ataaatgggt tattccacca  300
ccccttcaag tcttcaactc aatgttcctt tttcaatgag actatataac caacgtatTT  360
aaaatttcaa ccaccatcct gcattcactg cttttcttct tgctaanggt gattaatatg  420
tntttatttg actgaacaca angggccnna tacttgggtcc aacattatnc tgggtgtgt   479
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<210> 9454

<211> 467

<212> DNA

<213> Homo sapiens

<400> 9454

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gcagggggaa aggcaaggaa tatatcgtct acacaattgg gacaaattca tcttttctgc   60
tcttcaactc atgtccacat caaagtccag caccagcagc ttggtttctt cagtccatt  120
ccgactccca actgcacaca ccagctttgt gtttgaggct ctgatccgcc acacaactcc  180
cccactcccc ccactctcca atgtgactag gtttcgaata aattcaccgg ttttcaagtc  240
ccatagtttt acagttccat catctgagct ggtaattaca aagttcttgt tgaactgtaa  300
acaggtcaca gcactctgat gcttgttggg accttgcaat gtttgtaaac actgtcctgt  360
tttgatatcc cagattttta ctgtanaatc tgcattccca caaacaaaaa tattgtcttt  420
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gaattncntt ccncttgtn acaaaatggg tgncccgttt acntttt

467

<210> 9455

<211> 483

<212> DNA

<213> Homo sapiens

<400> 9455

gtcttttgtc aagtttatta tggttggttt gctcagctct taggaaagag ggtttgaga 60
 cagaccggtt aggccaggaa aatttaggcc cacaagtccc ggtggagctg ttctgatgga 120
 gttgttctaa tgggtgcttc tctcctgcag aacttgagca atcagtccga tgaccaggga 180
 gatgaccccg gcagagcagc ttgccactta ttagaactgg gcttcatgag aggctcttag 240
 gacactggaa atttcaagtt aatatacctga ataggctttc ttcctgtgaa aattttgcag 300
 gcattgtcca cgatggatgg aggaaaagag ggaaggcaag agaccaagct aggattgact 360
 ccaatattct ctgccaccct gtccaacac caactcccat aacctaataa ggggtggagg 420
 tgggaatcaa atttgcnttt ggtgatant gcaatttntt ccnactaaat cntccnanc 480
 cct 483

<210> 9456

<211> 577

<212> DNA

<213> Homo sapiens

<400> 9456

ctttgccaan aaaagttttt attgcaagca cagtgagean aanagatgt cttctcacac 60
 aaagtggcca caaggtctgc cattactaa atctctttga caanccttca ttggtttaaa 120
 gcatatgaat tagcttcttg ctatcaggtg tacatcattt ctgccatgtg ggacattttc 180
 ttgggaatat acaagtaata ctccatgtag cctgacaggt cctcaatggt cacatcatcc 240
 acnaaaactc gagcttgctc anaacaggat cgggganagc canacagagt tctggcgtgc 300

agcgactgaa antagtcctc aagtgtggat cttegttctg gagccaaggg agggacactc 360
 tgcaggcctg aaaaggaata tacttccata tcatgccatc tcttacactg gcatttccttg 420
 cctatgcatg tgcatggctt gccctggttt aacttggaaa ctgattgaaa attcnaaaaa 480
 aatcctgggc tttgaaantt gcttggggga nttgggttac ctcaaaagaa tctccctcct 540
 acncnccgan gggaacctgg aanaaaattc tcaaagn 577

<210> 9457

<211> 549

<212> DNA

<213> Homo sapiens

<400> 9457

gttttncag gttgtttatt ctttttaatt atgaatgcac atttatttat tcatgaacat 60
 tgggaaaaac gcaaatacat cagaatcggt aaaaatctac agctcctcat tcttcactac 120
 tagtttctct tctcagangt aaacactttt tcaaaaattc gtattttaaa tttgggggtg 180
 ggtaattcac atggtgcaaa catcaaaagc tatgaaaagg tgaagtttcc ctccatttc 240
 tcattgctcc aaagcaggaa atcattgtga ttaattttgt ttgtttttcc anaatgaaca 300
 caaagtttta taatatttgg aaaggacact gttectcana ntccaccctc taagctaagc 360
 atttgtgata taaagtcagt anaaaatata ttaacatttt cccctttct agatgtattt 420
 ctagaaccan aaaaaggaaa ggcacccagg ggaattataa tctcnttaa agtttgaacn 480
 acccaattaa tttgtttctc nnaaaaaatt tattgtcca ttgtnactgt tnnaaaaaag 540
 gaaaagaat 549

<210> 9458

<211> 599

<212> DNA

<213> Homo sapiens

<400> 9458

gatggaaaaa tggaattctc agttcatttg aagaatacag attagcaatt aaaaaataca 60
gcagtatctc aggaaataaa cattattctc attttacaaa aaagtgtatg tgaactttaa 120
aaaaatctac actacaatat gaattgatat tatctctggg tagaatgcta acaattttat 180
tttctccttt actgtattca ctaaagtgtt cacattaaat gttgtattac ctttgaaatc 240
agaanataca ttgtctaaaa ctgatacatc aagaaatagt tgtataagca tattacctaa 300
acacagaggt taccaacaga aattaaaagt ggtaaanaat gactcctggg gaactgtaag 360
aagangaagg tgaagggaan aaatggttgc tttccattct aaatcttcnc acaatctatt 420
cttaaaatca gacaaagntg tggtaaattt tttccattat taaaaaaaat tatttcctcc 480
tataagaata ngcccttgaa aaaccatta attgttatag gttcccatc ccttntccc 540
cccenttttt ttaaattgcca ccnggttttc cnaaaatatt tccncccc ccgaccnn 599

<210> 9459

<211> 456

<212> DNA

<213> Homo sapiens

<400> 9459

atattagatt ttaaaatatt ttctttgctt ttattttaat gctttatcct ttacttctgg 60
ctttganagt aacaggggaa agatttanct tcttactgtg aagaaacaga aaattantcn 120
aaaatatatg aaacaactgc agatattgac atgcacctta agactatgac ccctganagg 180
aatgaagtga ggcccatcca tcattctaga tttctacctg caggcacaga cctcananca 240
gggtagggga tcccaaacaa ancatggtgg tttcatgtnn ttganaaac agaggctgga 300
gttcaggag gctgaantgg ctgaagttgc agagcagagt nccagagagc ttacngatat 360
gtttaaacag aattccagaa atctgcntat ggagcccent gagangtggc tggatattaa 420
gacatgtnag cctagaacaa aactctnca agtcna 456

<210> 9460

<211> 568

<212> DNA

<213> Homo sapiens

<400> 9460

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gtgagtggca acattttatg tatgctaaat tggatggcaa tattagatta catcttctgc 60
aactgtggtg tcaaaaatct gatagcaaat ttgattatct gttccatttg tgacattgta 120
tgacttgatg aagcattcca accacggata tgcatacaatt tttattcctg gaggacaaaa 180
catatccatg atcatatcca cacttttctg aaggatcatca tccatcagaa cttctgatgc 240
tggaatctgg aanaatttgt canaatccat ganataggct tctagtactc ctgttccatc 300
atcaagtgtg aaggtcataa caaacacata ttggaggggt ncaataccca gtgcttctgc 360
cacagaaaga angaatccac gatgttttat caaccagggg aatttanatt ttgtatggat 420
ctcaaactan aacactgttt acatccctag tgatgttttg ttcctgtat aaaaaatggt 480
gctgaaaagg tccaaaattc ccaggtcctc cttggcccnna tntccccgga atttcccttn 540
ttaaaccttn ttccaaaaat ttgcatn 568

```

<210> 9461

<211> 561

<212> DNA

<213> Homo sapiens

<400> 9461

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ctgatttcat cttttattaa aaagctgana nttaaagaac tgtagggata actaagtcca 60
cctcaaagtc canacagaaa ctgccctccc aaagaaacaa tgtttcttta aaacaaatac 120
cacaccttcc canatattat gggtaggtaa gtgactagggt tttgcaaatt aatctatagc 180
tgcccatgtg catgtagtcc aaaaaacatg ccaagaagga anagctctga accagacaca 240
gaaaggcagt gtggcttcct cgctcaaggg gaatgcaaag ggctaananc cctggcttca 300
agcagctgtt atcctagatg aggaaaatgc aaacagattc aatctctggg atattgctgc 360
caacatgcta agcccttcac cagttgcctt gattcgaagc agttcctcta tgtntactgg 420
ctaaatgatg gactccggca gtgaaacca catactcagc aggtgcatt ctaatganaa 480
tgaangaatt taactaatgg tgtttgaact ggaaaaggta aggtctgaaa atcccattna 540

```

actggaaacc caaaaaaaaa a

561

<210> 9462

<211> 562

<212> DNA

<213> Homo sapiens

<400> 9462

gagacagagt cttgctctgt cacccangct ggagtgcagt ggcgcaatct cggctcactg 60
 caagctccgc ctcccgggtt catgccattc tcctgcctca gcctcccag tagctggaac 120
 tatagtgcc cgccaccacg cctgactaat ttttgtatt ttagtaaaa acgggggttac 180
 accgtgttag ccaggatggt ctgatctcc tgacatcgtg ttccgccac ctggcctcc 240
 caaagtgtg ggattacagg cgtgagccac cgcgcccagc ctaattttgc attttagta 300
 nanacgggat ttctccatgt tggtcaggct ggtctggaac tcccgacctc aggtgatcca 360
 cctgcctcgg cctcccaaag tgctgggatt acaggcgtga gccatancgc ccancctatt 420
 tcattcattc taacacatct aagctganct ttgaagaaaa aatnggtgac aggggaatcta 480
 cagccaaaan aantggttga agaattgcc aacaaatctg ttactaaggg gcccaantnc 540
 tcactcctnc aaacttccc gn 562

<210> 9463

<211> 541

<212> DNA

<213> Homo sapiens

<400> 9463

gaaagtatth attgtttaat aattctttct cccctcagcc ccatccggnc actctctctt 60
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 gcaatactaa aatcaatata ctgatcagg tcttcatcan ataccacgtc actgtgggta 180
 nantgctagt tttcaacaaa tgtgggtgtc ttagggctcc acaaggtant cctttctcaa 240

ggtcgctggg ccactcatgg agttgaaatg ccgctgcccc tctaagtaca acatggactc 300
 tccatatgtt ttgggaaaa ccaatggcac ttctttttcc gacatgaacg tgaaatgaaa 360
 gacattggtg gttgtatgct gcttctcctg cagggangcc acttcactgt gtactctgac 420
 ttgaatataa ttattctgaa ataaagcata cctgtgaana aagaaagaac nntgancccc 480
 ctccacaggt tccgaaacat gatttctcta ctgctancac aaacggtcna aaaacnccaa 540
 a 541

<210> 9464

<211> 460

<212> DNA

<213> Homo sapiens

<400> 9464

gtaataacat tcacatatgt aattagagtt taaaaatgta aaaaacttag ggtaacaaac 60
 actttaaact ttttttttag acattcaata agcccatctt cccacaaact gtttgattac 120
 aaagaagcac aatgggttaa ctgtggcaaa acataagaaa taaggcaggg gaggcagata 180
 cagacttgan aacataagga tatccaaaca attttgtcaa tatcaaaaga caaatcaaa 240
 acatctttta taatataaaa caaatccata taattaaata ctaattaggt gaaanattat 300
 agggatatata acatatatit tctctacata aatttgcata tcttaaattt aatgcaaaac 360
 atcatgtttc acttcaactt aacatcntaa catgttantt cttggtgant ctanatntta 420
 tggaatgaat atttaaatta aactncaaaa atcctancca 460

<210> 9465

<211> 349

<212> DNA

<213> Homo sapiens

<400> 9465

atttctgaaa tttttatgtt tcatttttcc cagaggaata agatacattc tgatcccata 60

ataatcgaat cacaaaagaa accattgagg gcatttgctt tgctgaactg atgagatgaa 120
 tgattaattg tctggaattc ncttcctgg agaggcaaat ggaggntag gaaggccnaa 180
 aattaaaatt aaaattaaaa acccnaggaa agagaagaga anaaaaggaa agtttaagag 240
 aaaaagaaag aaacnaagga gaaaaaactn tnaagtngaa aangagaaa gtggaaaaaa 300
 tattccttg gggtgtatat tgtcttctag ggccccntga caaaatacc 349

<210> 9466

<211> 566

<212> DNA

<213> Homo sapiens

<400> 9466

gtatttttag tanagatgag gtttcacat gtttgccagg ctgatctga actcctgaca 60
 tcaggatgac caccacctt ggcctccaa agtgctggga tcacagggtg gagccaccac 120
 acccgccca taaacatata tgtttaatca gagctttaat gaaataggat ggangtactg 180
 aatttgtag tctcttttt gctttttgag acagantctc atttgtcac ccangctgga 240
 ntgcagtgg gcaatcatgg ctactacaa cctctgcttc ttggactcaa gtgattctca 300
 ngcctcatgc acccaagtag ctgggattac aggtgtaccc caccacacca agctaatttt 360
 tgcattttta gtaaaaatag ggttttgtca tgttgaccaa actantctca aaccctggct 420
 tcaagtgatt cccaccttg ggccttaaaa attgctnaaa attaccactg aaccacacct 480
 gttgaatatn ctttaaatag gattataagg tttttgcctt ggaacaantt ttcnggaaaa 540
 aaaatccaaa anaaanaacc cttcct 566

<210> 9467

<211> 545

<212> DNA

<213> Homo sapiens

<400> 9467

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 acaaaggtct caggccctgg gtccaagccc acagcccca cctgtcccct ggctctgggc 180
 ctggctcttg gtgcccaccc tggcctcaca tgccaacgtc ttctgtggan tgtgcaggtg 240
 tccatganccg ttcctgtgtt gggggaancc tgcctgggcc acaagtaatc aggcactgtg 300
 gcagcctcac aatnaaaaca ggtgggggtg aattgggtcc ccacctgccc angctcangg 360
 gccacagggg tctacacagt cttttctgct ttgaaacacc tngtaaattgc tgggtgggaag 420
 gaacatggca ccggcaccaa ncaaggaacc cacttgatg gncacaccaa ctgccancaa 480
 tnccgggcca ancccacat gcacaaggaa acttgcnccn cctccccttt taaaaacccc 540
 ccnaa 545

<210> 9468

<211> 532

<212> DNA

<213> Homo sapiens

<400> 9468

actggtaaat tcattttaat aatgagggga aaaaacttta gttattaaaa aaaaaagaat 60
 gaatacacat acacacacta aatgtggcag atgtttccag gagagattag caacagagag 120
 gccacatgat caaataaaat ttacactttt gatgggattg tcccctcgcg gccacccaag 180
 tgtttggtga anaaagtctg gagttgtttc caagcatcca cctgagccat ggcatgagcc 240
 ctgggctccc ctcccanaat aataggactg cccaccaagg catgcaggga ancccgacac 300
 agggggaant aaggaggctc aatatantgc cctgtctctg ggtaacaaat gatctggggc 360
 tttctctcc catgggcctg caancgttta cangcctcnt taacataaaa atccctcctc 420
 ccgttggttg tcctncctga cctanccaga aacaggaaag ttctctctgc cctttncccc 480
 aggaaataaa ccnctcctgg ttcggttcc cccaaanggg cnnttccagg aa 532

<210> 9469

<211> 505

<212> DNA

<213> Homo sapiens

<400> 9469

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aggttaattc tttacatggt gagggtgca cagaaacaat acatcaatcn tctgttacca 120
ccganagana cactttaagt tncccaaga gtacaaatcc catctatgaa acagcagtgc 180
tggtcttcta aaaacagtaa aaccaatcaa aaagaaaaga ttagagggtt cagacattag 240
aaciaatgtg gccaganata ccacagagcc ctigaaggga aaggcctcac tgctggctcc 300
gtancaatgt tgaccnnaa acagggcagg ccangggant ggcagggcgc ggaggggtgg 360
aaaggaggga ngaaaaaaaa tacaccctc cagacctgcg gcaagcgcca ctatgggatt 420
ctgaagttag cgtcnccctc caatttncn ggaaagggan tgcctggccc aacangggca 480
atttttaaag ggccnggatt tntcc 505
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<210> 9470

<211> 543

<212> DNA

<213> Homo sapiens

<400> 9470

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ganacggagt ctcgctctgt cgcccaggct ggantgcagt ggcacnactt cggctcactg 60
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taattttttt tgtatttttt antaaaaacg gggtttcaca gtcttagcca ggatggtctt 180
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aagtgacttg ggcaccattc tggacactaa tccttgscan gctccaangt tctatccta 480
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nan

543

<210> 9471

<211> 488

<212> DNA

<213> Homo sapiens

<400> 9471

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tgattaattg tctggaattc agcttcctgg agaggcaaat ggaggtatag gaaggccaaa 180
aattaaaatt aaaattaaaa accagaggaa agagaagaga agaaaaggaa agtnaaagag 240
aaaaagaaag aaacgaagga gaaaaaacta taaagtggaa nagggagaaa gtggaaagaa 300
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gatttaaaca acaccagttc attttttctn cagttctgga gactggacct cccanatcna 420
gggtgcaggcc anactgggtt cttctgaagt ttccnccct gggtttacaa atttctctnt 480
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<210> 9472

<211> 561

<212> DNA

<213> Homo sapiens

<400> 9472

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gaatcccttg ctggagacca cacgancant gacattgcac ggananggca gctttggggt 180
ccgccgccgt cactgaaacc accggaangc ggctcccgtc ggaagcatca ccttctccan 240
ancagcgga gcttcttttt gagttcctcn cattttctga atttgcaaat ctgatggcca 300

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gtctttcgat tcctacaact gctgcactgc tcgcanttga tgcncncg gcagggcgcg 360
cacattccgc agcgtttccg cttcttcttg ccggantga tggcanaagc cagctctccc 420
tgcattgggt atcaccaagn ccnccatttt ctcccgtctt ccggccanga aaaaacctgc 480
ccggggctct tataaaaaag cctgggttna ttggggaaac ccccccttng ggganattcg 540
aatggccctt naagggtncg g 561

<210> 9473

<211> 462

<212> DNA

<213> Homo sapiens

<400> 9473

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acagcaaagg cagaggcaaa ccacccacc ctttctcagt tggggctgag aaagagctgg 180
gaccctggca gccacacac agtctcttca taagctgtaa taaatcactt atactccttc 240
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taagtgttca tttaaaaaac gcttttgttg tctaccttgg ggnaagggtt tcacatcaca 360
gactgtcctt cccagttcca gaatgttcca tctgttgcca ttcaaaanga atcaataaat 420
ctctttaag tncnataatg tttnanaattt tnggtntttt ct 462

<210> 9474

<211> 280

<212> DNA

<213> Homo sapiens

<400> 9474

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tttaaata gcttttcttt aaccaaaaaa aaaaaaaaaa aaaaagtgtt actcacagcc 180
ctagttacat aaataattta aatgcacaaa tgcaaaaaca cacttcacac ganattgtnc 240
acatactgnt anaacncggn acaattacna taaaaattct 280

<210> 9475

<211> 366

<212> DNA

<213> Homo sapiens

<400> 9475

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tattcataaa gttgcttagc ctcaggacat atgctcagga gactttctac agaggtcgat 120
gctagcagtt gctggcatag tccgtgcacc aggcttcac tgtacagtcg agttaggtct 180
ggctctggga gaggagtga cagcagctgg ttgagataca tccccatctg gagacaggac 240
tgccactgac agaagatgtg agctgtgtct aagtccagtc ttgtgccag ccgtgtctgc 300
gccttcactc ttggaactc tgcatacaac atcttagcac natctnctg cnnctctncc 360
ttacna 366

<210> 9476

<211> 405

<212> DNA

<213> Homo sapiens

<400> 9476

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tgcatgcagc acacacacac acacacaaaa accaaaaaca aagccnaaaa aaaaaaaaaat 180
cccaaacaca acaatccatg attgttcaat gactcctgat gccgggagga caggctgtta 240
aaaaaatttg tctcccacaa tatctctgga gtgggcacaa agcccatcac ctgttagtga 300

tcacagacat tcagttaacc tgtccttccn gtnatcngaa aaaacaattc aaacccggaa 360
ttccccaaaa cntntttttg gtgaattntg ggtttgaaaa naaaa 405

<210> 9477

<211> 374

<212> DNA

<213> Homo sapiens

<400> 9477

gggaacaaaa atttgctttt aaaatgtgag tttataacac ttgaaggatt tcattcttaa 60
ctcccaatta tataattaca aaaaaaatcc aagtttcagg aaaacatact taatcctaac 120
ataaaattca tgtcacttat cacaaagaca gtcnagtgtt taaaggagaa acaaaacaga 180
agcagtattt acaaatttaa actacatgan atgttgtgaa caatcttttg ttaataaaca 240
gcacgttaca tactttttaca tactacattt caaaaatgca tctgtgaata atatgataaa 300
gcgcatagtg ttgaanactt taaattaaat ccnaggnent cntgttgaan acctgaaatt 360
aaattcnagg ttgt 374

<210> 9478

<211> 443

<212> DNA

<213> Homo sapiens

<400> 9478

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gatctttatt ggcttatatg caaagtttca ttttggtttt atgcanantt tgcatagttc 180
atgatttggt tctaataaaa aactaaatgt gttgccagtg actgtgaaaa aaatcaggtg 240
acagtagcaa acagaaaaat ctgaanaaaa agcntaactt ttaaagtnaa aaggtcngca 300
agaactgctt cagctgcagc cagtgatgtc acctccatca gggttactgc tcggaaagca 360

aacacggnag ctgccagcac agcaagaatt tccaganaat tgtntcctan gattctatcc 420
cntaaaagca anancatgatc tgt 443

<210> 9479

<211> 496

<212> DNA

<213> Homo sapiens

<400> 9479

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tacaggggcc tgccaccaag cctggctaatt ttttttgtat tcttagtaaa nacaagggtt 180
caccatgttg gccanactaa tcttgaactc ctgacctcag gcgatccatc tgcctcagcc 240
ccacaaagtg ctgggattac aggcatgana caccacggcc ggccccaant tcttgaacat 300
tacacttttc caccaacatg tnggtatatt catgtgggga attaaccggg actggaggan 360
ggaggtgagg aattgatacc tgttcacttt gcaactaaca aangaaaatn ggttctttna 420
aaacatttac ttttttccat gtnggcccaa nataaacacc ttaaaattta attgtttacc 480
ttnaagggtt ncctac 496

<210> 9480

<211> 346

<212> DNA

<213> Homo sapiens

<400> 9480

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caccactgca gcaccacatt tctctcccgc cccggncgcc ccagcgggat tgtnaaatc 120
ggctccccta ntgcccggtg gcctccttc cacacangct gggcggaac ggcaaatnan 180
cgactaaccc ccnactaaaa agcggctgct gaaaagccca agcccacctc tgttcaaac 240

aagttaacaa anttcanaag ggaagaaaaa aaggganggg aaagattatt ctcnnaacag 300
gacccccccc ccctcctgaa ttattaanga nggaaagggc ttccca 346

<210> 9481

<211> 490

<212> DNA

<213> Homo sapiens

<400> 9481

gagaattcag gacatttatt tttctgcatg gaaatttaac tactgtataa cacacgcaca 60
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catatttaaa acgcctacaa acagcctttt ttttttaggc aacaaaatac gtccagtcct 180
tgacatcttc tcatactcac ctagcaccac agatgcaagg acctaacagt aaacatgtnc 240
aatctcatgc ttaacaccta aagcatgcac tgaattgaat ttgtatgttg tgatctattc 300
tactaagtat gcaatacata ctttttctta ctaatatatt atacattaaa ttaccngca 360
gcattttgaa attttaacat tgatgttaaa caacttttga aagatttatg aaacaagttt 420
ccaggntcc cntcacgggt ggtttgggnt naatngaaaa atggcacccc ccncnaggtt 480
cctactgaat 490

<210> 9482

<211> 561

<212> DNA

<213> Homo sapiens

<400> 9482

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ctgcagcctc aaactcctgg gctcaagcaa tcctcctgtc tcagcctcct gagtagctgg 120
aactacaggt gtgtgctacc actcctggct aagaataccc tttgtttggc tggctcttacc 180
ttatagaaag agtaacagta atagtacagt gctactccat tatcaatagg atatgtaact 240

gtaggtttgt actacactag ttttgcacaa tcacctgtat aatcactggc acatggctct 300
aagactattg ttgcgtcaag ggatgaggtc aatcactaac actgtaaaca gcaagtgaag 360
cttaagtnac agaaaagaaa gaactgatgc gaatgaaaat tgctgaactc tgctatatga 420
taattctcta gctctccact ttagaaaagc cagaatataa accctcctgg ggatatgaan 480
atgactttcc attttgaatg atctctgaaa tccttaatgc ntcnggatta tattaatttt 540
tcnccctgcc aacntcccca a 561

<210> 9483

<211> 457

<212> DNA

<213> Homo sapiens

<400> 9483

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ctggtacatt tggctctctgg tgangggcca ctctctggtt cataaaatga caccttctta 120
ctgcttcctc acatantgaa agggacaang caactctttg ggatctcttt tataagggac 180
taatcccatt gatgagggct cctccctcat gacctaatca ccttccaaag gccccacctc 240
ctaaaacat cacctcaggg gttaggattt caatatatga attttgaagg gacacattcn 300
gaccacanct taaggacang ggtttggggn agttaaaaag gaacttccaa ggggaaacca 360
acattactaa ttttagattc ncaactattn anaatttgaa nattcctgaa ncttttcact 420
atccattttc cccatanttt aacacaaata atatgnc 457

<210> 9484

<211> 559

<212> DNA

<213> Homo sapiens

<400> 9484

aagtttggga gctcttttta ttacttgag aaatctcaga aacgtacaaa gcccatgaaa 60

gtagatgcat ttcagaaaat aagataaaac atttgcatac atacatatta atgacatttt 120
 agttttgaat taaaaatatt catgattttg cattgaagca tcctgcctgt gaattaagta 180
 cattctgaaa tactgggaaa agatttcata tatectgtac ttgaacctaa attcctataa 240
 atggntgagt tatattctct ttctananat taagttcaca atttgatttg tagactaatg 300
 gttttattga tttnaagtat ctttaaagag cagaaatagg aaacaagcat acaccacaca 360
 cacccttta gtttaagtga tatatcagat caaagttgna attaataataa taatcttttag 420
 tgcttttaaat tgtattgttn cgttttcagt agaccaatgg aaaatacnaa naatccaact 480
 gcaaaaaaag ttaggtaatg ccggaatgaa tnccttaacc atatcngggt ttttatttcc 540
 cattntncng attaattaa 559

<210> 9485

<211> 567

<212> DNA

<213> Homo sapiens

<400> 9485

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 aaacatanac ttttaattaca ttttggtgaa aattcattca actttggtgc ttgtaaaagc 180
 acttatgtca atttttgaca caaatcataa ccttcagtac acaggtattt tcaaaggaaa 240
 caagtcactt taaagtaata tttttctata tgctaattga tacatcttta tagcaaattg 300
 aaaattctga gtaaactgaa agtatgctta acgacnaaat aaatacngca tatatggtta 360
 acatatacat ttcttantgt aaaggcagca atgaaatttg tgtctcaca taaatctgta 420
 aatccagttg ctttctttct ggaaatttta tatagtgtcc nccatnttcc acaatgctgg 480
 aaatntcttt tttggcatca atctatgccc aaatttccga atacntnttt ncnccaaatg 540
 aaatttactt ttaaactttt ccnnaaa 567

<210> 9486

<211> 577

<212> DNA

<213> Homo sapiens

<400> 9486

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gaattaagaa actaatactt tattaggaat gttaatgtcc attaaaagta taaccaacat   60
ccattcataa gagtgacctt tggaaagatt ttgtaagggt gcaaataana ctttaaggga  120
agtggacatc cagtacaaag aananattcc atgtttgtgg ctcaatgtca tacacttaaa  180
tttcacagtg cctcaagatt ctcaggaggg caccacatg ttcccatgcg tntccggtgc  240
tttgacataa ggaatgttcc atatccatgg ccatcttta cttcataca gttctggagg  300
cnaatcatat ggcacaggga aaggtggccn ttggtcctg gctgccancg aaaaacttct  360
gtttcacttt gaaactgtct aaaaccaaat gctgaangga aagaaaanga acccnanctc  420
ctaggaacgg atcatcacct gggttcatt cctcctcaa tgctcccan gccaccttgg  480
aacaatttg cccttnnac aaggaaccaa cccatttnc tgaattctgg aaaaaggccc  540
cnatttttcc ttaatatatt gccttggcat tncgtcc                               577

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<210> 9487

<211> 550

<212> DNA

<213> Homo sapiens

<400> 9487

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tatgtgtcaa caaaatacag tctttaaacc ttaaatatca tttaaacaga ctttaattgca  180
tacattttat atacncacaa agtcaggatt ttacatggc agggaaatac tgtggaatga  240
tgaggctctg agganacana tgctatcaaa tgaggactct ggggtggtat tttctaaaaa  300
tggggttctg aaataaattt ttattgtatg tagcttattt tacttctaag aggaacaaaa  360
gatacttttg ggcagccaaa gtatttctac ttcctgctta aaacattcag gcnaatgaaa  420
tgattataat aattagggtta gnccttatt aatctctcgg tctccatttc cttatcttcn  480

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taatacccan aaaatttatc cttcctttct ccccanccc cncctggcct tcntnaaatt 540
 ttttttttna 550

<210> 9488

<211> 536

<212> DNA

<213> Homo sapiens

<400> 9488

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 tcaataaaaa ganaattttg taanaaaaca ttcttggcat gaaagctcta acataaatc 180
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 attgtatata aatacaaagt catgatgggc aacctttcca tantccacct acttaattga 360
 ncagttctaa gtangtaatt ggcaccttgc ctttctggtt tcccctttcc cccattagcc 420
 agtctgaatc cattccaaca aactgaaca cagtgatecc tcntctgcca aaaatnataa 480
 ttcentactg tttgctgcnt ccnaacctan aaaaanccgg gctttctggt ggcact 536

<210> 9489

<211> 542

<212> DNA

<213> Homo sapiens

<400> 9489

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 ttcagggtgg ctgggcactg caaactgctc cctcctctgt ggtccctgaa aaaaccaca 180
 cgcctgcttc anacgtntcc acgcacacca gtcctcacag acacacacac acatgcatgg 240

aggcaataaa .tatgttccgt accaaactgc cccagcctg acgcttcagg gggccccctc 300
 caaaagggaa gggtttaagt gctcaatttt tttcgggggg ggggcaaggg gggggcaang 360
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 gggctctccc cnggaaaagg tntgggaaac actntttctc tataacccca agctaccctg 480
 ttttcatgct ggaacccaaa naagggctnc ccccccaaaa attccctnc caatcttttt 540
 tc 542

<210> 9490

<211> 443

<212> DNA

<213> Homo sapiens

<400> 9490

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 ggggtggggg ccatcgcttg atgaggacat cccggcgggt catggagcgc agcaccagcc 300
 ggctcaccac cactggcacg aactctgagc caccttgctc aaagctcagc ttagctgtga 360
 acgggtcctc atctccgatg gagtccttgg tctccactag ccgcagaant ctggganctg 420
 ttntttngca atctctanct ntn 443

<210> 9491

<211> 526

<212> DNA

<213> Homo sapiens

<400> 9491

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gggtctcata tgttcccaa actanantgc agtggctatt cacaggcgcc gtctagcgca 120
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 gattacaant gcccgccacc acgcctggtc tgccaatact ttctatcagt ctgtcatgtt 240
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 tgcacaacta tcagggtccag ctcataacaa ttcttctatt tatccatcca ctgccccaaag 420
 aactgcctgg gcattcaatg gcccgcaacc ctnttccanc ccaaaggtaa aactccgggc 480
 cctggggaan tccananaac ancccggaaa tggggnaact ntttgg 526

<210> 9492

<211> 543

<212> DNA

<213> Homo sapiens

<400> 9492

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 cttggctcac tgcaatctcc gcctccccgg ttcaagcaat tttcctgcct cagcttcctg 120
 tgtagctggg attacaggcg cccaccatca cgcctgggta atttttgtat ttttagtana 180
 natggggtct caccctgttg gccaggctgg tcttgaactc ctgacctcaa ntgatctgcc 240
 tgcctcagcc tcccaaagtg ctgcaattac aggtgtgagc caccatgccc agcttgaacc 300
 acttttattt tattccttct ctccctaaa aaaaattgan gataantctt gccttttttc 360
 atcaaccata ataagtatgg tatccattca ctacttgact gctggaaaac tcaggacatt 420
 tggacaaaat gcttcaaact ggggccaaaa ttacctgtcc ctccaaaaaa ctnanttctg 480
 ggcatacctt ctctnttttt ggaangccca tnaaattnaa cctaactcct ttttcaaaag 540
 tct 543

<210> 9493

<211> 532

<212> DNA

<213> Homo sapiens

<400> 9493

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atttttaaag taacatttaa tgaatacaca ttataaaaag ccatcatccc ttaacatggg 60
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agcagtaaag aagtttagtt taactttttt tttaaagtga aaatagtttg gatctgttaa 180
aaggaataga gttcgcccaa agcacttatt ttcactgtgt gtaaactcat tctttctacc 240
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agcagggagg ttgtgggaag gacagaagga gaacttgggc tttctttggt cagctgggtg 360
ggcttggagc acttgtgtgt ggggccaaan gtcaggtctg gaaatgcagc tattatgcc 420
aaaccaccag aatgctcttt ancttcaggc ttcatagaatt gcttttaact actccggttg 480
aacattttta ctaagctatn aaaattnaaa ttcctttttc nntaaggnc nc 532

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<210> 9494

<211> 568

<212> DNA

<213> Homo sapiens

<400> 9494

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gagacagggt cttattctgt tgtccaggct ggagtgtant ggtgtgatca cagctcactg 60
cagcttcaaa ctcttgggtt caagcaactc ttccacctca gcctctcagt agctgggact 120
acagggtgtg tcatgacac ctggctaatt tttaaatttt tttttgcaga nacagagtct 180
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tcccaaagtg ctaggattac aggcatgagc cactgcacct agccaggatc cacttcttac 300
actatattgt attttgataa tataaantaa aatgcattga tccattggca natanaaatg 360
aantcngaaa taaaangcat tcaacccac acaaaactaa cctgaggcaa ctttctactc 420
taatgccctt acgttcagtg cataaaaaat catnacttgg cagggtggga cggaaaatgc 480
ttttttttaa atacnttnc cccccctt attccaaacn taanttttg ttgttataaa 540
atccgggnaa ttccccccan aaaaaaac 568

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<210> 9495

<211> 404

<212> DNA

<213> Homo sapiens

<400> 9495

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atcctttttt gacatgggag tctcactctt tcgcccagcc tgaagtgcag gggcacgata 60
ttggcttact gcaactccac ctcttggtt caagegattc tcctgcctca gcctcccgcg 120
tggctgggat tataggcacc cgccaccaca cctggctaata ttttgcattt ttagtaaana 180
nagggttgat ttcaccacat tggccaggct ggtcttgaac tcctgacctc aggtgatcca 240
cccacctcgg ccttccaaag tgttgggatt acaggcgtga gccactgcac ccggccctga 300
atgtccttgt ttttagaaaa tacacatgtt aatatttata ngtnaaaggg tntcacgtct 360
acaacttatt tccaaatggt tcagaaacna acctntgtt naca 404

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<210> 9496

<211> 575

<212> DNA

<213> Homo sapiens

<400> 9496

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gtaaatttgt ttaaattctt tgtaaattct ggatattagc cctttgtcag atgggtanat 60
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tgtgcanaag ctctttagtt taattagatc ccatttgcata attttggctt ttgttgccat 180
tgcttttggg gttttagtca tgaagtctt gcacatgcct atgggctgaa tggatttgcc 240
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tgaattaatt tttgtataag gtgtaaggaa gggatccagt ttcagcttc tacatatggc 360
tagccagttt tcccancacc atttattaaa tagggaccct tccccattt cttgtttttg 420
ccaggtttgt caaaaatcaa anaattgtaa angttttngt aataattcng aaggcctgtt 480

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ccgttcccat gggccaaanc cccgttttng gtaacaataa ccaaaccgtt tttgggtacc 540
gtanccctnt ttttaaaatt ttnaaaatcc ggntn 575

<210> 9497

<211> 564

<212> DNA

<213> Homo sapiens

<400> 9497

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agttatttct tgtcttctgg tagcttttga atttgtttgc tcttgcttct ctagttcttt 180
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ccagtagtca ttcangagca ggttgttcag tttccatgta nttgtgcggt tttgaattaa 420
tttcttaat cctgaattcc taatttgaat gcacctgtgg tcctgaaaaa aaaatgttgt 480
gaattcccg tcttttgcatt nccgngtttt aatgttttaa ctncccaata aagtttgtca 540
attttaaaaa naanttnena aatt 564

<210> 9498

<211> 568

<212> DNA

<213> Homo sapiens

<400> 9498

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aaaaaattcc ttatattatt tcggtgggca gcattatttt atcccactgc gggctctgag 180

caggaattt atgatttgct gccanaacat ttgacctgg aggatgttta cgttcccana 240
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 tatataactg tgggcctaaa aactgatcaa ttgatctgc caccctgtta ggattattta 360
 acagtggctt tagttctctt ttatactcc aaacttcaga cccagtaagg ggagcatcca 420
 caaaaccaat agcttctcct ccttggggaa ctttccttaa aggaaaaaat gttgaaattt 480
 actttttggg ggggcaggaa aaagggaan tctgaatata ctcctacatt gttttaattt 540
 ttgttggant tctttcctt aaaaaaag 568

<210> 9499

<211> 484

<212> DNA

<213> Homo sapiens

<400> 9499

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 caggcgcatt ccaccacacc cagccaattt ttgtattttt ttgtaaaaac anaattttgc 180
 cacgttgctc ganctggctc ctaactcctg ggctcaagct tccacctccc aaagtgctgg 240
 gattataggc gtgagccact gcgcctggcc tatttttcct attcttaaag tatttttttt 300
 tgtttttctc caccaanana nttccatct ttccttgtgt atgttgaggt ttcattccatg 360
 tccancaggg gctctggcct ttgcaataaa atctacttat gcncanata aaaacattgc 420
 aactaactg gaaaatcctt aaaaaaacnc ctcncctttt ntactttaaa aanaaagttc 480
 ccgt 484

<210> 9500

<211> 513

<212> DNA

<213> Homo sapiens

<400> 9500

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ggtggatggt agattatitt aatttgctga tagtgcattc agtatgaggt tgatttttta 60
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gtaacttttc cataagtagt atccacaaat acaaaatcac tgaatataaa ttttcagctg 180
tattttctga tctggttaca taaatgttct ttgattttaa ttaagccaaa gttggagcta 240
aacagatttt ctgcaacat ttcatcttta agatgaagtt aaagatttgc atttgaaatc 300
tcccattatt gaattggaag tagcagttcc agttaatgtc cagcatcctc tgaatgccaa 360
tggtctttga gtaaacaat gaaccttcat cgcttttagt tgtttaagac accacttcac 420
atgatcagta agtnacaaca acaaccnctt ggtaaagtgc catgaatgcc aatcccngtt 480
tnaaanattt ggggttaaag gataaaacnt ttt 513

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<210> 9501

<211> 482

<212> DNA

<213> Homo sapiens

<400> 9501

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cttgggtatgc tttcaggga gctgcctcca ttgcagcaaa ctcctttgat gccttttctt 180
cttcctttgc cttatccagg cttttctgtt taatctcact gatccttttt gccacatttt 240
ccttatgatt ctttctctt tcatgaaatt caacactctt gaaatgaaaa gagaaaataa 300
caaaagaaaa ctacataaac atcataaaat tcatagtaaa cataattttc tcataaacat 360
gagaaaatta aaattaaaat gaatggcaga aaanatgaaa acattaattt aatgcaaatt 420
gggcccttta atcnaattna atgctnggga actaccttgg ttttaataata atnttcnccg 480
na 482

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<210> 9502

<211> 323

<212> DNA

<213> Homo sapiens

<400> 9502

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acagggataa ataaatcaat aataaataga aagcaagcag cccagtcctt gatccctggg   60
ctgagagccc ttccaccagg cccaagtcca ggangagaca agccctggtc tttgcgctgg  120
gctggccagt ccanaaggct ccaganggan gcaggcaggg tcccggggcc ctcggcgtgt  180
gcaggtctgg ctcaattgtt attcattatc caccaggang ctgggaaaaa cacagtgggtg  240
agggtgtccg gggcccncan gtggtccatn aagatncgct ggaangcctt gctgccangc  300
gactgctggt gccttctcca nga                                           323
```

<210> 9503

<211> 395

<212> DNA

<213> Homo sapiens

<400> 9503

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aagtanagac aaggtcttgc tatgttgccc aggctgggtct tgaactcctg agtcaaaca   60
atcctcccgc cttggcctcc caaactgttg ggattacaag catgagccac catgcctggc  120
ctatcaattt ttctcaccat gacaactgac ttgggtcatg tcctcatfct acacctgcct  180
cattgtgctt tcccatctgg ttctganttc ctctaggatc aaaggaccaa gttcttacta  240
ttcatgttca tatcccagtg ttattgcata taatttcagc tggctgaaaa aaggattata  300
tgtaactga aaaaacaaca acaacaacaa aaaaaacaca tatctctgct gggnaanaca  360
tgaaactnnn gnggaaagat cntnggatta ttacc                               395
```

<210> 9504

<211> 558

<212> DNA

<213> Homo sapiens

<400> 9504

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cagctttcca acccagctca tggagcttta ttcanacggg antgacaaca tcttgcttcg 60
ttcttgctgc ccttgaaggg gcaggcccta ctganccata ttccctaaaa acccaatgcc 120
gaaggcccat ntttgacctc ccactttatt caantcncct aggactaggg ctggggcctt 180
cctaaaancc ccctctcaaa acctgtttct acccaccac cactcccgtt gtcaggccca 240
gggaggaccc atgaatgaca aaaatcatnt ngggatatct cctgnactgg gaatcccctg 300
ccancttcaa ggacatntcn tctgacacag gganaactga catctgtcat attcttctgc 360
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atttatntgg caaaatttac cncgtggcct tttccccccc ccctgaaaga atccctnnaa 480
aatnaactt gcccaanggg gcctcnttct tggttgccca aaaattgccc cctgggcca 540
acttatttta acnctttt 558
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<210> 9505

<211> 465

<212> DNA

<213> Homo sapiens

<400> 9505

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aactgatgaa ttctggtgat attttattta gaaaaagata atcactgatt ttaanatctt 60
aatTTTTctt tcttgtaa atgtacactaa ttagacgtaa gatagtatta gataataaaa 120
gtatttacac attgaataca aaataaatat aaagtaactg aaaaacaaat caggtttcca 180
ttgacttatt ttgttttccc actgtccatc ctctgtttca ttttctttg ctttttgtaa 240
atccgtttct ttcttgcttt caaatcaact ttggctctg gttttacca ctgtatttct 300
attggtttct cctcagctgg tgttacaaaa acatctgcag tgggatcatg tggaaaaaaa 360
ntcttcggct ctttctttct cagtttttgc acatctttca cttgctgttt ctctctgtat 420
tttgagctg tgatgggata ttatgacacg ccgatgctnn nnnnn 465
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<210> 9506

<211> 548

<212> DNA

<213> Homo sapiens

<400> 9506

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gtaggcatgc anatatttta ttgctgaaaa ttacatttc tacatttgaa naaaaaattc   60
tctgacctat gacctgtggc caagtctgag tagcctgtgc tttcgtttgt ccacgtggtg  120
aagtcccaca gcctcccctg acactcaggg agaatcctct tgtgaatcaa atacaaaagc  180
aaacgtttgt tttgtatttt catttatggn tgccttaact tatacaanaa ataggcaaaa  240
agtcttaatc acattgcttt gagcgtatgt aacatcttta aagactgtta attgatgtca  300
tactccttaa tctttaaaaa taccacctg aggagganat ttgtagtttt acccccattc  360
tacaaaaata aaaataaaaag attaaatcat atacacaaag tctagaanag gaatgattag  420
ctttagtgtg ctgtttttaa tcaagcatga nnaaaactaa gctaattccn tacattgggg  480
actgaagaaa atntnttaat taatttgggc ncattacaat ttgttcatt tgggccaaaa  540
aaaactan                                     548

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<210> 9507

<211> 585

<212> DNA

<213> Homo sapiens

<400> 9507

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gtcctaaata ncatgcgttc atgangctgg ctcactttat ttttgcccc angtcaggtc   60
tcccaaaggg tttcccagca ntcaattcan antctcctgc agantacca tcaagcanac  120
ctcttcctcg ggangccgtg tcgccacccc aacccttgac ttctggtatc accatctcct  180
gtcacctggg ctccagtctt tgtccgatgg cctcaacagg acatcaaagc atanctacca  240
gtttgaangt gccctcaggc ttggcaggaa ccacgtggac aaaagtcttg taaaacacag  300
cacccttggg cagcctggtg atcanatcca cagcctccgt gtttctggga tgangcacgt  360
anaccticctt agtgtancgg actatccct cttccagggc atacagacat ttattcttcc  420

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caacacccac ctgcaacaca caaacctggt cactggtcan ctggtcatta aggtgtccnt 480
 cccaaaattt tggganaaat tctcacacaa aaaccgggcc ctggggcnaa aaggttatna 540
 aaaaacnccn ctcaggtttc cctttccnct gggttaacaan ttcaa 585

<210> 9508

<211> 530

<212> DNA

<213> Homo sapiens

<400> 9508

ctttccttct ttttagagan ggagtctact tctgttgcca ngcgggaatg cagtgatgtg 60
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 attcaggnnc aagccactac acctagattg catatttctt ttataactta taaaaatttc 180
 agctatatta aaaaacagaa tagtacaagt nttccatcag tcagcttcaa atttaccaaa 240
 atcagagcca gtcttgtttc atttgaacct centccactc aatatgaatt attctgaagc 300
 aaattccagg cattttatca tttaatccat aaatcatagt atctttaaca gataggtttc 360
 aaaaacaacc acggtacat tattcatgcc taaatgaata attccgcact gtcatacaat 420
 atccagcgta cacatttctt ggaagtttcc ncaaagattt ttaaaattaa cttgtttgaa 480
 tcaggatnca aataaaccn ttgcncnaat tnattgaaaa atcncccaaa 530

<210> 9509

<211> 283

<212> DNA

<213> Homo sapiens

<400> 9509

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 agcgatccgc ccgcctcggc ctcccacagt gctgggattc caggcgtgag ctaccgcgcc 120
 cggcctatit acttttctta ctaagctggg gatctccgtc gccctcggct tggcaggaag 180

gcgggggtag gggagcgggtg ggaaangggg gtgggcnacn actctnatan anggaaaaga 240
ggaanggaaa gttggggctt actgcagggc aagctcctta gga 283

<210> 9510

<211> 454

<212> DNA

<213> Homo sapiens

<400> 9510

ctggtttcct tctcggttta ttctgttaga atgaaatggt tcccataaat aaggggcatg 60
agcccttcct cagaccatg gtccatgaca aggggcaggg cananggggc ctggatggga 120
ntccttgtgg gggaccaggc aggggacttg gatcaacaag caccagacna ntggcggggg 180
caggcgagag gctcantggg acctccacce tcgttgcccc agctggtggc tgaccangtg 240
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tccttcagcc ccattgtctc acacaccag cggtatgtcct cctcgcctgc cacaaggatg 360
gactgcacag caggggcccc tacaggctcc tcagggtgact gggctggagg ggctggcgca 420
aatgtnnaaa gtctantcnc tncngccgcc ccna 454

<210> 9511

<211> 568

<212> DNA

<213> Homo sapiens

<400> 9511

agaactttca taacagatat tcaatacctt tattatcagg agaaagaatg atcaatctat 60
aacattccca aaagtacaac tctaaaaatg tcagttttgt tcatatagga ctcccaactt 120
taatgatata cccatcntac agccaggaag cagaacaatc cctccagaaa aaaagcacao 180
atgccaagat gctctccnac cacaattttt ttaaattctat gaaacaattt ccttacaoat 240
taagtagttt ttatagtagt gacatttgtc attgatgtga tctgtttaat atgactgtag 300

taagaangaa gttgggcctg ttactgtttt cagaaattga aaagagtacc atcnttaaga 360
 taaggaagan aaagatttgt atccatcttt ttgggacatg ttnaggtgag agtgaantgt 420
 cccanttggg agaatttgtg gatattgctg gaanaattgg aaatgcnccc tattagccgg 480
 gtantcctct ccccaacccg ctgttttggc cnaaatttgg ccccaaattg ttttccccn 540
 ggggtttttg acctgggtccc ccnaaaaa 568

<210> 9512

<211> 560

<212> DNA

<213> Homo sapiens

<400> 9512

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 caaagatatg tttatgttcc attaaccgag tatgaagcaa aatcattaaa atattacaac 180
 tgctaaacac agaagactag aaatcaaata gtttcatatc cagtatacag gcatcaaaaa 240
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 tattcctatg ggattaattc aattactcaa tggtaaataag attttagctc agaattttta 360
 aaggatgact tgctttaagt tactattcta cgtgctgctc tatttctgct cacacttgca 420
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 ngaattggca tagggttaaa aaggcccaaa ccgttnttta atacncattt tcctaataac 540
 taattgntta ngnactnctt 560

<210> 9513

<211> 593

<212> DNA

<213> Homo sapiens

<400> 9513

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 catctgcttg accggatggc tctgaggac agccaaactc ccaatggcca aagggtgtg 180
 aggaanggca acacgtatca naaaaatttt cagcaagggc tgaaacacag taaggtagc 240
 caaaaatgg aatgagagaa gccctaacc aatgggagtt tgcctaattt taatgaacc 300
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 agaatttctc accanangcc cacaggtgaa aaggctgctt actctaaagc ccttagaacg 420
 tattgtgaac tgcgcattcn aaggatctag gttgcgtgct ccttatgana ctctaagcc 480
 tgatgatctg angtggaatt ttctccncc accaccacc cgctcccttg aaaaactntt 540
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<210> 9514

<211> 486

<212> DNA

<213> Homo sapiens

<400> 9514

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 aaagggtgcc tttctttcta atantctcat gtcgctttag gtcaactggg ctggcttaca 180
 cgcgctgtgc ggtcttcatg gaaatgggan ctctgtntgt cagcacagga antggtctcc 240
 cagcggtcag cctgaancag cccaagtcct gtaggtgctt gccgtctctg aagccccagg 300
 aacatcagt caanaaggaa aaaactgctg gcaaaaatna ctccaagge tgttctccgc 360
 tctgggtggga caacctgggt gctggcccca aggggtctct ccaaaaanat gtgtgtgacc 420
 tggcangtgt nantngcacc tgcanaacca agttctgccg tganaaaaga agaatgctg 480
 tagttc 486

<210> 9515

<211> 562

<212> DNA

<213> Homo sapiens

<400> 9515

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atagcacaat ggttttattg acggcagaag aaaaattctt ctttcactt gtaaaangta 60
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ccctaaaatc tgttttttct ttcttcaa ataatatcc accacagcta cttattctga 180
aaaaaaagtg gaaggtctgt caacagggtt ccaccagggt gtttcagtca ctggctcggt 240
tcttcacaaa nagtctactt taaaaagaaa tgaanaaaat gaaattgaag cctcaaatta 300
acttttccat actttgtcaa gatacatttc tgctgaaact tatctgtaa tgtgaagtgt 360
ttgtataaat agatcttaac tanaattttg ggatactgct aatttgtaa caatcttata 420
aagccatatg aaagaaaaaa nccaattttt ttgaaaataa attttttttt ttanactttg 480
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anancccaac tgttnttttc gg 562

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<210> 9516

<211> 609

<212> DNA

<213> Homo sapiens

<400> 9516

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ctgttggttg gtctcttggt taattttaaa tttagcaata ccatctcaa cctggancaa 180
tcctggaaca gttaccagga tcaccttttc ctttcaatcc ttgtggcttc tgggaatctt 240
canaacctgg gtctgaaagg tgtttcctac atgtctcagg gctggatgca aacctggctg 300
gggacctgag catcaactcc catttagaat cagacatctc ccttcctgc aaatgtctac 360
aactaccaa ttgctcccca acagttagct caatggattg aatttgaga accaactcct 420
aaaatgggga ctgcctggcc atacaactaa naaaaaaaat cnatttatag atgcttataa 480

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ggtgacacct aattaataaaa tattagctnc ttccatatna acccaaattg attttgtgcc 540
caaaaaaacc ttttcccnt ttaccnact ttccccctga aaatcccctn aacccaaaaa 600
actccccc 609

<210> 9517

<211> 552

<212> DNA

<213> Homo sapiens

<400> 9517

aagggaaatg agagtathtt attacaacat cattgcaatt aatattatca atgaatgata 60
attagtagtg gtgctaacag tagtagtggt ggtaagcat ttathtttgc atcctaattc 120
taatattcac tctatgaatt taggacctac tattactccc attttaaaga taagtacacc 180
gaggtttacc aagattaact gacttgccaa gggtcacaca ctggagtaag ggcagaacct 240
tanactcatg tctgacctt cgccccatgc tcttaaccac ataatgccat cttttatttc 300
agtgacaana caaaagcatt taggtcacac tcttggtgtt aaacaggaaa attatataaa 360
tgcnaattgt ttaaaatang ttttggtatt ctttttganc aaaccccan tcctttaaan 420
gatatactta aaattttttt taagccgaag aaaattnact actatttacc atgacaattt 480
tnttaanttt ttaaaaccaa aaggttttta aaaatctgcc tcccaggtgn aaaanttttc 540
tttggttcn nc 552

<210> 9518

<211> 610

<212> DNA

<213> Homo sapiens

<400> 9518

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cagcgtcaaa ctactaggct caagggatcc tcccatctca gcctcctgag tagctgggac 120

tacaggcaca cagcaccatg ttcagctaata tttttaattt tttgtggana ccgggtctcc 180
 ctatattgcc cangctggtc ccaaactcct gggccaagc nagtctccca cctcagcctc 240
 cgaaagcact gaaatttata ggcataagcc atcaccccca gcctgacaat ttttttagg 300
 anaacaaaaa caaagtgagt tctacttgct actttaagc accacatgtg aatattcaat 360
 gatgtttcat tgcaaattgg aaactaaatc ccatttgtca attttggtt ttgttgccat 420
 cgcttttggg gttttaanan atnaantcct tgcccatgcc tatgttctga atgggtgtgc 480
 ctaaggtttc ctcnagggtt ttaatggtt ttaaggcca anatttaatt ctttaacccc 540
 cctgaaataa attttgttt taggtttagg naaggatcca ttcnacttt ctnctattgg 600
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<210> 9519

<211> 597

<212> DNA

<213> Homo sapiens

<400> 9519

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 gacatgtntn ggacaaagaa agatggtagt ttgcatggat ganataaagc cccagggggac 120
 agggcagcta cacatgaatc caaatagtct aatctccaaa aggaacagag agtggattca 180
 tacaacatac caagcccgcc ccctaaatgc atcccactca ggtcacttat aaagctccaa 240
 ggatgggcca agaacacaag ctctacacca gggaaacttg gaggcacag aaggacagaa 300
 taagaccag gttcataggg gatgaaaaat cgaacagana accatctcag ggcatittgtg 360
 aangtccaag gatggagana anaagtgtg gcttacaagt gggatgaagt ctgctatacc 420
 acaatggaag ctgaagctan cangaaaca ctattcctct ctgaancagc tgcggctttt 480
 tgcaaatcca ttattgtcac gtccntcnat gtcttcncc ctgccctaataa tccnccatct 540
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<210> 9520

<211> 623

<212> DNA

<213> Homo sapiens

<400> 9520

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ccaaaattaa cattttttatt aaatcaagtt aaaaaaaaaat gttcagtgta gaaaagtcaa   60
caagggtttt aacaaaacca aaatatacct ttttatacaa tatatgtata tattagcagc  120
aaactacttc tgagattctc tttcttttatt gttcttctag ttatttttaa gaaagcataa  180
acaatgtata ttagtatgga atgtcagcaa atccactctt agtcctttat tctgtgattt  240
gggccttcta caaaataactt tgtgattctc actaatgaat attaagaaca tacccaattt  300
taactaaaaa gtagtgaaac agtggttggt agaatctttc tcactatata acggtcacac  360
attatatttg agaataacaa atgagcacca tataaacagg taattgtgtg tgtgtaaact  420
caatttttaa ggtgtaatag tagccaacta gataacttag cactgtgact atcacttttt  480
aaaaatttgg tgatatacaa aattttaaac aaatcagata aacactccac ccctatgctg  540
tccattaaaa aancctaata aaaatcctat atataaccga caactgcata ccccatnttt  600
nttttttnc cccaaattnt tnt                                           623

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<210> 9521

<211> 566

<212> DNA

<213> Homo sapiens

<400> 9521

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gcatgangcc aatactgtta ttgttcacat ttacagagc aagaaacana ggcagcgagg   60
cattaaaaca cctgtctagg gtcacagggt gtacagcttt cananccagg aatcataacc  120
aggctctgtc tgttctaaag ctigcctttt gtaactcctg cacattaaac aaataatcac  180
aactaatttc ttaaataatt acaanaaanc caagtgtttt gaagtataaa taaaagggc  240
taccgaagca taaaatggga attggaaaaa tacctacctc acccanaatt attgtnagaa  300
ttaaaaagca ctcatgggtg cactttgtat atcaaaaaga actttaaaaa tgttcagcat  360
tgtcaaactt tgnccanga nanatantct tatctggaca ttcacacct tgaaatttcc  420

```

aaaatgttaa acgccctctc ctgaacagtg caatancctt ctgtatacct ttgggaatac 480
tgacaaanaa taatgaattt taaattttta aaaatctaca tttccgactg ccactccaaa 540
aaantttccc tccgaatcct aactgt 566

<210> 9522

<211> 574

<212> DNA

<213> Homo sapiens

<400> 9522

gaaggagaaa ggctttaata atattaataa taggcaaggt aatgcttttc atagtatagt 60
aagatttgcc taataccatc ttatttcttt gattaaaagt tacttagctt cagcatgcgt 120
gtacattcaa aatacaaaat taaagcatga gttgtcatta atttgcagaa ttctatgatt 180
gaagcctcta aatgaattgt gcagganagg gagtttghta acaactgact acagacattc 240
acattgggtc atctttaaaa agctggactc tgcttttgga tgcttctcgg aggcgagttg 300
gattttggac tgaagtactg tcgttccatt cttttttttg aggtgttatg antggggcta 360
taacatcgcc atcctgcggc ttggtgaaat ttctgtctgc acaccactga aacaaaatat 420
tgtcttgagg catacaaaact ctttctgtcc accttcttac aatatactcg aatcanctgc 480
tctgcaaatt tctctggcan aanttgtgaa acctggtttt aagtaatcct gatgctctgt 540
tgggggcagt cttncataaa accaacttna tcat 574

<210> 9523

<211> 558

<212> DNA

<213> Homo sapiens

<400> 9523

ccctgaaata gaaatttaat atttgacaa aaaactgtaa acttttggtt acattcaaaa 60
tacaaccttt taaagactta aattgaggtt ttagcaactg gagctcctaa cagcagattt 120

atattactat gatgttttaa aaacatgata attctaaca gtttgtttct cttactctga 180
catttactac caggaggaaa aaaatggctt cctgcaattg acagtctggg taaaggaatt 240
gctcaggtgg acaatccgac cctgacttcc accttgactg cgttccacaa tcacacaagg 300
tatctgtact agctggaaag gactcttccc gtctctcaat gcctgagtaa ggtttaanat 360
ctgacccctc atcacagaca tctgactttc aaaagtggct ttgtcaaate ctttgtcagt 420
cttaaaaaant tcataaaaaat cttncataa atcttgccca aatttcatnt caaaaatata 480
tggtaaaatc aaatttctta tttctncnaa aaaggggaact ttggcttgaa gaanccaccc 540
ccnttnaaat gaatttnc 558

<210> 9524

<211> 594

<212> DNA

<213> Homo sapiens

<400> 9524

gccattgaaa caatcattta cttcaagcat ttcccctgtt aatcatcttc accattaaac 60
taactgaagg aaaaaatgga taatttacta atcatgaatt ttgtcgacaa acttcccata 120
aaggagaaca agtgagattt taataggaag ataaaagact ctgccagaag tatttttttt 180
tttttttttt gagacanant ctggatctgt caccagggt ggagtgcagt ggancgatct 240
cggttcactg caagctccac ctcccagggt cacaccattc tectgcctca gcctcccag 300
tanctgggac tacaggtgcc caccaccag cccagctaatt ttgtgtatt ttagtaaaa 360
atgggggttc acggtgttng ccangacggt ctcnatctcc tgacctcgtg atccgcccgc 420
cttgggctcc ccaaagctg ccanaantnt tctttactgg cttgaacttt gtcccccaat 480
acnttaatat ntttatgtta caaatcnccc gacagttaaa aatntttttt tccctctgaa 540
taaactgaac ttttcttaat actgaaaaat ttgaaattnc ttgaatattt aaaa 594

<210> 9525

<211> 445

<212> DNA

<213> Homo sapiens

<400> 9525

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ggcttttaaat aaagcgttta ttgattagta naagcatgaa cagtgtgcat aatattttca 60
atacaatatac agggagggat gatgggaacc cctccttcac tcaggacact tccccctccgc 120
anacctgcac gttctgggcc tttctcattt caccaccaggc ctgcccaccc catgaggcac 180
cccctaaatc tcattctctcc acccagcacc cccagcctgg ctccagcctg aaaacccctc 240
cttcccccttc cctccaaaac agtggggaaa gcgangctcg gtccaccctt aactgcggaa 300
agancanggc cangaaggca cantgctccc tctcccggtc ctggcccaac cactccttgg 360
gtnaattggg cggaaccac tgggctcaca ccaacttttc acctccctct ctccnnnaaa 420
ggatggcncc cccctnangg gatgg 445

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<210> 9526

<211> 392

<212> DNA

<213> Homo sapiens

<400> 9526

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aaacctgctt aactttattg gaactagctc agttgattac agaatggggt cacaatcatt 60
aggggaccac atacatttta aaccaaaggc gattcttctc tagccatctg ccaaccccag 120
ctatccattt tacaacaca tgccattaat cacaaggag gccanaagga ggtttcatgg 180
ctccatgtaa cccatcgttg ctactggaaa aaaataaaca aactcccagc acttgtccta 240
ctgatgatgg atggcacttg gaaaacatat ttccaaaaat cntggcaggc tgaaattggg 300
ggccattaac cccccactga atacctnccc ttgaaaaaat tttccantaa naatgccnc 360
ttttaattt acttntnccc tatnccctt aa 392

```

<210> 9527

<211> 417

<212> DNA

<213> Homo sapiens

<400> 9527

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gtcaaaacaa ggatctgctg gtgatgcttc acagtgaaac ctccattacc actgagaatg 60
tcacttgga aacattctta anaaatgagt ctctttctca taggctcaat ttcaggattc 120
tcaaactcaa tgttctgctc agaagtttcc atgatgaanc ctatttgtct ctgaggctgg 180
ggctctgcct ttanacttat tctgctccag tcataggttg tggttgtctt tgttcttgg 240
cagaacctgc aagtanactt catgaantgt nctgangaac tggaatcatt ctttattaaa 300
tgtattaatg tttcccgga ccgaaaactt gctgaanaat aatggaaagg cttcctctna 360
cttncctggng ttccantatt tnaaagaaaa aggggaactg gcttcnctc aagggcc 417
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<210> 9528

<211> 390

<212> DNA

<213> Homo sapiens

<400> 9528

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attgtggtaa taaacacatg acataaagtt taccatcttc accatttttc agcgtatagt 60
tcagtagtat taagtatatt cacactgttc tttgcaaaac taaaactcat ttccattccc 120
ctccccaggc ccctggtaac caacattcta ctttgtttcc ataaatgtga ctactttaga 180
gacctcatag aagtggaaac accccatatt tgtcttctta tggntgactt atttactta 240
gcataatgtc ctcaagggtc ntccatgctg cttccctgat tttgattcta gagctcttat 300
ttcctactac ttcccctaata gaaatgtact ttaattnggg ctatttncct tangnttttt 360
tnaaaggtat tttttcnggg gngaaatcct 390
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<210> 9529

<211> 327

<212> DNA

<213> Homo sapiens

<400> 9529

aagggtaaac aagctttatc ccacataaat ggcaatgcag atataataag caaatgatat 60
 antaagcaag ttgcaatggg aagggganaa aggaaaanaa atatatgttt ttataactccc 120
 cagactatgg aggattcncc accagactgg gaagcaacag caacagcctg ggctcganan 180
 tcggacactg cactcaccaa actatggcgg attcaccncc agactaggaa acaacggcct 240
 gggctccaaa ntcggccact cgtccgtgca canacaaaga naggtctcnt gaagcttcng 300
 cacaatctag gaccnancct cttttgt 327

<210> 9530

<211> 528

<212> DNA

<213> Homo sapiens

<400> 9530

cttaaaagat actttttttg ttcaattcct ttgtaaaaac attggtcacc atttaacata 60
 catggcaaca aaatgcaccc aatttacatg catcaacaag ttaataaatc ataatacatg 120
 gacaacacaa atttaaacaa acaggactaa agtagctcat gttgcattta actatgggtc 180
 ttgtgctcct aatagagaag tagctaatat gagaaacaaa cagttccagt ttcaacctaa 240
 attaaagtta tttgtggcaa gtaacatgaa acaatgatca tatgaagtca ttatcttaaa 300
 aagaaccatt cttcagaaat cactttgtgg caaagcacca tactagggtta gactatgatc 360
 ttaaacatat accttcagtt aaagacaaat ggtctccatt ttttgaaaat tacctgaatg 420
 attccaattt ttattatgcc ataaatttta tctttccatg ttnaaggtat ttttttgacn 480
 cctnaattat tccngaaaaa ttcnatttaa ccattantcc cngggacc 528

<210> 9531

<211> 602

<212> DNA

<213> Homo sapiens

<400> 9531

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cgttcttttg tttatcaagt tttaatgaaa ggatacaact gatgctactt tacaacatga 60
taaacatttg caatgtccca aattactact attgttacga gaataanatt gctcaggttg 120
ctaaaaggaa tttttaaagt atttcctctt ttggttgatg tagtacctga tcagagttct 180
aaactaccgc ctaccaaatt tttctttgaa aaatctacct ttatatgtga aattaatata 240
cacatatatt ttaggtaaca gtaatttaca ggtttcttta ttaaattagg atctttgcat 300
taagcccaac tcatcactga tcaacatatt tcatgctgat aagcatttag caaaatttga 360
gactgatatt caataatatg tattaatatca gataatctga atgctaaaat agtttggccc 420
ccggaattat agttantttt aaatgaaaaa aaccctttt atccggccca ttggcaattt 480
taattttacc nggcanaatn ccccccnaaa ttttttatgg gtctttaaaa aacaccggcc 540
tcccccttc ctgatttccc aatttttaac ccttnttgg gnaaangaaa anaaccctt 600
gg 602

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<210> 9532

<211> 485

<212> DNA

<213> Homo sapiens

<400> 9532

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gagttttcaa acaatttatt tcacaggana agtgganaag gcaatcttct tencacaagt 60
tttataaccc attaaaacag tatctttcta atcccctcag antgggaaaa caggtaattc 120
tcaacctggg agacaagctc tgaagtnacg anctatcacc tgctgcagga ngtgtgaaag 180
ctcattctta aagttttctc acgtttattt tccattttct tagcacagaa tgttctttcc 240
agcaaggtec attagagag accgaaatat gaatatggct gcattggatt ccagaggagg 300
acttgatcaa atacacagaa atagtggctt caatgatcaa gttattttgc ttctgggtcaa 360
gtcggatata agtctgagtt ttcttttcaa agctccctta tgctgagagg aantntgaac 420
anaatccnac tgccgtcttc acacaantgc cgaactcctt tccccnaaaa actcctttna 480
atccc 485

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<210> 9533

<211> 516

<212> DNA

<213> Homo sapiens

<400> 9533

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aaaatttcaa atatatttta ttcaaaattc nccatttang anaaaagana tataacaatg   60
tttacacatg cttaataaac ttatttcact gtacaactta cattctgtat aacagtacaa  120
taaaccagcc aaagaaaata accagttagc acttaataaa gaatctacca tgtaaaaaaac  180
acagtatggg aactacaag gtagtattta tatatttttt aaatgactga gctacagtac  240
aacagtcatc tagttcagtg gttgtctaaa acatcaagct gtccacatct ttctgattca  300
tgatgggaaa gctattatga cctttcacat tcgaacatgt cattttgttg tgtaaatttg  360
gtgggtgggg ggcagaaagg ctctattacc tttatccctt tcttataaat atattttccc  420
ntttatatta ctccnnaat tttaaataaa atatttaatt gtgtttgggt tacnaccaag  480
ttcacattgt gttnaaaata tattaacct tntttt                               516

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<210> 9534

<211> 472

<212> DNA

<213> Homo sapiens

<400> 9534

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aaccttatcc aacttcagta ttattttagt agtaatgtgt ataaaatcca accactgctt   60
gggtgacctt aggagacagc aagcctaaga gatgaaaaca ttacacctt ttaattaaat  120
tacactgtca ccacataaaa gtgtgagggt caacatttgt tttcttaaaa acagagcact  180
aaacagttta acacaggacc taacttacgg ctaagatgtt tctaaaatgt atgcagaacc  240
cttaagacta tactgcatca agtagttctt ttgaattatg tntactcaa tgatggtgtt  300
ataatttaca ttgaaatgcc ncaacaaant cttgataaaa cnagatatng ggagaaataa  360

```

aaattat tttt ctgaacccaaa tgtgttctac cttaccctan aattaaatcn ctgggaaata 420
cgggcaaaaa acaaactccg cntgtgaaaa caatnggctt ntcccnctg ga 472

<210> 9535

<211> 488

<212> DNA

<213> Homo sapiens

<400> 9535

cctcaaattt tat tttttatt gaaaaaaaaat ttcctattgt aagttttggc aaggtattta 60
tttggcta at caggcanaaa ggaaattacc cttcaaaaana cnattttctt taaaaattat 120
gcactcctgt acaatctttc tttttatcca aaaaagggtc tcatattatc tctatgacct 180
catctcctga aattacatta aaatgtttat tacaanac tttgtaaaaa caaatgtaca 240
accttatgga tatgttcatg caagggtgaca aaaatatatg caaaagggtc ttcactcttg 300
ctttctttgt aataanaag tgaaaataat cttgtagtcc attcaacagg ggactaatc 360
aataagttaa agtatactcc tacaatgat tatgcagtaa tttataaaaa aatgaaggta 420
aatctattta aacncttatg gaaaggtnct tattantatt tantaaaatg acaaaaantc 480
cccncccn 488

<210> 9536

<211> 499

<212> DNA

<213> Homo sapiens

<400> 9536

gtgggtggta ttttgttttt aatctccata gtgtatttgt taagtttatt tataagcaga 60
tcacttcact atttacagta catgagcata gagattctac agtttctgtg atgtaaacia 120
taacccca gtagggagttt gagaaaagaa gccagttctg aagtatttac agacattaaa 180
atagaacttt atactcacag aataataata catagagcaa tttgggttaa ttatctagga 240

aactatagaa tctgacaatg tacaaataca agaaaacatt ttctcattta gaaggtaaga 300
 cagagaaatc acaccagaaa taaaataggg acgatgacna ccacaataat taaaagcaaa 360
 gaaggttcct ccttgccctct tacggataaa gtatttatat aaataaggac acaaccaaac 420
 aaaatggaaa aaatatataa aaatcctcta ccaatnaaaa aaaatagcna aactaaaact 480
 ngatcnnnat cattacnat 499

<210> 9537

<211> 548

<212> DNA

<213> Homo sapiens

<400> 9537

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 agaagtgtgt ggatgacctg ccaaacaata agtattcaaa ntgttgantg agggangtga 120
 ggttgcaact atctttctct agaaaagaan agaactgggt attcatcaaa ttggttaaatt 180
 tgaggttcgt caaaaagttt ctacagatac agctgaatat actaacatt gctctattat 240
 ctgttgaatt gctgtatttc actttttcag catttgggga tcattattta attgaatttg 300
 taaanacga ttttccanac aggtctctgt tcttccatga acaaatgata agaaacaatt 360
 tgactcctta tatgacaatg gaattaaata aattgacact cntctaggaa taattctcca 420
 tcntctccat ctctaaaatt accccctgcc aacaaanaat tgatctttct tccccaaaac 480
 cccttggtta nannatcttg tgactcngaa tgccaaaata attaattgaa cctncagggg 540
 anatttct 548

<210> 9538

<211> 580

<212> DNA

<213> Homo sapiens

<400> 9538

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 ttattcccca gtaattctct caaggtgggc atatgcaaaa cataatctct aaattcttca 120
 atactaagaa atacctttgt ttgccccta aaatcaaagc ccattttggc tggatatagg 180
 attctaggat taaagccttt ttccagcaga actttgaana cattgctcca tttacttcta 240
 gcatccagtg tgtccagtga taagtctgct gtcaacctga ttcttggtcc ttggtaggta 300
 atttctcttc tctctctaaa ancccttatt attttctctt tatcactana attccaaaat 360
 ttcaccaana tgtntctaag aatcatctct ttcatcaat ttactaagt actcnacaan 420
 cactgacaat ctccanantt gaacctttct ttantttctgc caagtttctt ccattaattc 480
 cttaaataatg ttctctgccc aatctcataa ctccnccctt ccggaatccn aaccaaacaa 540
 atttgcaatt cnaaattctc cccaaatccc ttggccttct 580

<210> 9539

<211> 572

<212> DNA

<213> Homo sapiens

<400> 9539

gctttttaac ttgtgtgtgt gtgtttnta atagggtccca cgtgatttat gcttttaaaga 60
 agctctgttt tccaggattt gtttcaatat ttagagctcc tttatcagt tctttagtagt 120
 gtggcttggt gtgaattatc ttggcatttg ttgtctgaa gatnactgta tctttccttc 180
 aaatatgatg cttagtttctg ctgtatacaa aattcttggc tgataattgt tttgtttgag 240
 ggggctgaan atagggtccc aattctgtct taactttagt ggtttctgct ganaaatctg 300
 ctgttaatct gatanathtt tcctttgtaa gttacctggt gcttctgtct cacagctctt 360
 aaaatggttt cttttggata acctgatgac agtgtacctt agtgaanac ttttggtgan 420
 gaatttcccg ggtgatcttt gtgcctcctg tatttggatg tctaagtctc taacaaggcc 480
 agggaanttt cccccattat cccccnata tntttccag ccttaaaatc nctcctcccc 540
 ngaacatgaa tctcctaagt ttggtgttna ca 572

<210> 9540

<211> 383

<212> DNA

<213> Homo sapiens

<400> 9540

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gcaagttttt tgacttttat taaatcttta caaaacagaa tacaaaattc cggcattgac   60
agttggtgtn aaggaaaact tctgancctc gtcagttcac ctggtacatt ggaattaaag  120
tgcttgatg tttttccccc actttaaaaa aacttttgag gttttttttt ttttttgtct  180
tttaaaaaca tcgtaacatt aacacatggc cgttcaccgt cccccaacga tggganctgg  240
cctggggccc anggtcctcc angatcttca ctcattcaca gtaacggttc tgaccaatcc  300
tccaagtccc acgtggatgc nacaagggtg gggaaggga gaaaaaattn ctttccccct  360
tcnnaaaaaa aaaaaaaaaan cnn                                           383
    
```

<210> 9541

<211> 509

<212> DNA

<213> Homo sapiens

<400> 9541

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cattcggctg ccgaaaagga ataaattact tcttccana atgctccgat cagttacgtg   60
ccggacgttc taactgtacg cacttcctat ttacatatct ccgcccactc ccttcgccca  120
ggcacctacc gtagtaacca aaatagaagc gataccaagt atcttacggt ctgcaggact  180
anaaaacagc gttgtttttt ttttattcag tagttcagcc atctcaattg tcccctaaaa  240
ctgtatataa gtcttaatgt tactacaaaa catattttat tacaagcac taaatacaat  300
gcggataatc ccagactcaa gacgtnatta ttccaacaca taccctccag canaancagt  360
ttccgagggg aaaaccgaan cctatgcctt ctttcttcca agaaatacaa acggnccttg  420
cccctgtngg cttcgtcctt angttcccgat catgaangta atcaaaangg ttcttttcca  480
cccaaaaacg ggacaaataa anccnttca                                           509
    
```

<210> 9542

<211> 461

<212> DNA

<213> Homo sapiens

<400> 9542

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ccaggttttc aagccttttt tttattanaa agcttaaatt attagctttt tttttaaaag 60
ggantagcca atatccattt ttgagtttnc tcaaacaaat aataaggata gcaaactagg 120
ataagaaaac acattagaan acagccttct acttcgtaca acttctagtt accttttcct 180
atccattcac ctacttctgt tcagcagcaa naaaaaaaaat ccatttattt ttgccttttt 240
ggatttttcc aaaataaaact tcatttacct gaatacaaac aaaagctagg gagatggctt 300
ttatnttggc ataaaccaag gacatntctc acaaaccagg aaaaccctgc ctcgatatggc 360
ttattttgca gtttggagtc caatggttat aaaaccaant gaaantccaa caatntccca 420
aatgacncga attgacnnen attatgggaa accctgaatc c 461
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<210> 9543

<211> 540

<212> DNA

<213> Homo sapiens

<400> 9543

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ggggtctcan ttcactcttt ccttgtttat taaatatcaa cttttcctgc ctaatgggct 60
gaggttcatt ttccatttcc tcagggttaag ggtngactac ctangaactt attgcatctt 120
taggccagct ggcttantgc tacccatctg aacccccana ttactacca agtcttcctt 180
ttgccccttc ctgccctaac agcaagtnc aggccagtcc cttccccanc aaatgccagg 240
ggcttcatgt naaaaagaac tggccacaan gctgaaaggg aagaagaaaa actgtttctg 300
cangaaaaga naacaatgcc tccaagctct tgggcatctt cccatttttc taaataaaga 360
naaactcaac tctggaacct ctggtngcaa aaaaaagaa gccgggaatt tggcctgggc 420
ttcaaatacc ctgttctgga tggattcccc aatnanaaaa gncaggttcc tgggaactgn 480
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aatccccag ggccattncc aaccctttcc cttaaaaggn gnggcatgcc cattcctctt 540

<210> 9544

<211> 533

<212> DNA

<213> Homo sapiens

<400> 9544

ccattcaaga ccaagtttat tttttaaaan atctcttctg cattanattc tangtttctt 60
 ttttggtttc aaaactgggt ctacaatcca taaaaatgac attaatggan atcttaaaaa 120
 caatctgatt ataccagcag ttggttaaca tatcggtana actgttctgt aaatgcttca 180
 ggggaaaatt tttccttcac tctggctctt ccagccaggc ccatggtggc ttttaaggaa 240
 ngttcacgga tgaacttttc tattgcttct ganaagtgca ccgggtcagg ctcacacana 300
 aaccctgtga cactgtgggc aatggactcc aagggtccac ccgaattaac agcaatgact 360
 gggcactgca tgtacatggc ttccanangg acaatgccaa agtgctcatt gcttggtgtg 420
 ttaacacaca ctttcactgt tggaagaang aaaatttcct tttttctaaa aaaaaccccn 480
 naaaggtecn ttcttgcca aggtcgantg ttngaccatt tntccattc ccg 533

<210> 9545

<211> 500

<212> DNA

<213> Homo sapiens

<400> 9545

gaatgacaat ccactttaat aatccagctt cagctcagct ganaacttcc cctctcaagt 60
 gcaaagggat ggcaaaaaaa tctttccaag aaggntcaat ccactaagaa attatggctt 120
 aaaaaaagga acagctcaaa aaacccttga aaaagggtgag ggtctggaag actcctgtgg 180
 tgcangccat ctcccggata nantgcatgg ccagttgggg gctgcctaaa tccancaccc 240
 gcagccccag ccgaaaaacc aaaataagtc cnatgggtgtg tccacagggg gtgtcnttcc 300

ggaccatgaa atcctgcagg gggaccttga ctttgttggc cacctctcgg atcanggcct 360
 ctgacaccgc gtttgaaaca taacgttgct tgctgttccc ttgatcaccg ggcccttggt 420
 gaataaaagg cegtnggttc ccnctncct gtccnnttt tttgggaatc cccaccttgg 480
 gccctttntc cccntttttt 500

<210> 9546

<211> 585

<212> DNA

<213> Homo sapiens

<400> 9546

aaacaagtgt tgggagaaca acttttaata atacatattt aattttcaga aacatatgct 60
 aaccatcaac aacatgatca gggtttcatt gcccagatg ttatttcatt ggtacattat 120
 attgatattt acaaaggntt tcaaattcaa caacacaaaa caaacagct taatttttaa 180
 aaactacaat gctttaaaaa aatgtaaaca gtttaatttt tacattattg taaaaaagaa 240
 gactcactcc ttaatgtggc ttaatttttt ttttaagtgg caaagcctgg tgctcntgga 300
 taaagaatga aaataattct ttacatagaa acattgtgct ccagtgtggc aaagaaaaaa 360
 aaattatatg tncacatatn aagaaaagaa tcttaagccc ncaatttaga cccaaaaaaa 420
 tcttgtcccn aattgagaat ttataaaaac catttacata tggttgttga actactggaa 480
 acctatntac cntttccaaa caatacccct ccaaaaaacc ctttttttta aaattaaatt 540
 ttgtgccaaa aaaantgntt tancctaaaa canacatccc ccctt 585

<210> 9547

<211> 588

<212> DNA

<213> Homo sapiens

<400> 9547

ggttgttttt attttttttt tcattaaagt ccattgatca tcacaaaaac ccangaaatg 60

caactaagga naaaacaaac gtccaaccaa gatctaagaa accagancta tggagganac 120
 gttgcactgg actgctgggt atgcacaang gggcaggagg ggcgatcccc atggggcatg 180
 gccactggcc atgggaaaca caggagggag gccaggcanc tggctgggcg gttatnttaa 240
 ccgctgcacg atgacagcat tgancaggtt ggcttccttc agggctctggc tctcatcanc 300
 cagctctttg ttcgggaaag tattcatgaa gataaaactg gtggcaccat ggctggccgg 360
 gcatccacca taaaaaatcc gatgtcncgt atcctgcang aattggggaa accgtnaaca 420
 atgccatcct ctgctgtcca taccctgccc tgtngaaaac taacacctcc ccaatcccct 480
 tcctgacttt ctccccnaaa caccaaaact cccccngcc tttggacaat tccctccctn 540
 ccaaaatcct cccctttttt ccctttccct gaaanaaccc nccccccc 588

<210> 9548

<211> 366

<212> DNA

<213> Homo sapiens

<400> 9548

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 gtaaatang tcttggtttg agagaaacaa ggattgggaa aaaaagcctg tattttccag 120
 tcctagttaa acgggagana aagaangtgt cagaagtgga gcaaaagtca nataccaggg 180
 tccccactta attttttagcc ctggtcacc acagcccaaa aggttggtgg ggagttgctt 240
 tanaaacacc cacatggcca cggggaancc cancaacact ggggctgggtg gaatncctcc 300
 gcaaaccngg gaaaaagtcn cccttggtt gaacttatcc tgctgtttnn aaagctgtga 360
 tgggac 366

<210> 9549

<211> 584

<212> DNA

<213> Homo sapiens

<400> 9549

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agatggagtc tccctctgtc acccaggctg gaggcagtg gcatgatctt ggctcactgc 60
aacctctatc tccctgggtc aagtgattct gcctcagcct cctgagtagc tgggactaca 120
gatgtgtgcc accacaccca gctaattttt atatttttag taaanacagg gttttacat 180
attggccagg ctagtctcga actcttgacc tcaaatgac caccgcctt ggcttccaa 240
agtgttggga ttacatgcgt aagccaccac aatcagctga gttctggctc ttagtattac 300
tctagttatg tctctagata ggctatggcc tggaanattt taaaatttca aattggactt 360
attaaaataa aattataaac aatatttcna agttttattg atttaaaatt acttcnttac 420
tactatttta aaataatctt aacaacaaaa atattaatcc cggcgtcttt ttctaccctt 480
atcataaatc cctaattggg aanccataat atatangtct tactgggac nccaataaat 540
taatccttna aagttctgaa tttccccnt ttaccaatc cccc 584

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<210> 9550

<211> 591

<212> DNA

<213> Homo sapiens

<400> 9550

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acagaaggga gggagattta atgttgcca tagaaagaca ttaaagtca gactgacaat 60
ttagttatgg ttacaaaccg gaaaaccatg ccatttggag taatggaatt tgaagttact 120
anaaaacgac aacagatttt tgatacagaa tgacaaggct tatctataac acgtcaacgt 180
tttcgacgac tctgaaattt ataaatagct ggggagtcca ccgtttcttt cttcaccttc 240
actttctgag ttttatccat aagatctttg cgtgtttgaa ttttctgagc aataacgaac 300
aatttcttct ctcgttcaat ccgctgtgtc aggcagttat actgcttttg cttttcttta 360
gctattcnct taagttccag tctgattggg aactcctttc cttttcttc tgccaaggct 420
tctatcctgg gcctattaaa aacnctgtca actaactccg gggctgnttg caggtnattt 480
gcaanatcaa actgttcacc tnccttttng gtgtcaaaaa aanacatgc ttgttccttt 540
gtccccctga aatcccccaa atganccng aattttatcc ttccaatttc c 591

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<210> 9551

<211> 596

<212> DNA

<213> Homo sapiens

<400> 9551

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agacctgtac agtttttatt acataaaata tcacaaaatt cacaagtaca acactgctta   60
ttttcttgct tgaagatcag atctctggtt tatttaanat caacattcac cacagctgaa  120
ggaaattaaa ctgaaccttt aaaaggtacc gcatacggac ctggttgggg ttatatacaa  180
tatattcatt gtagttgang gtataacat ctggattcag aattcctgtg tcacttgctg  240
gtcctaattg cactgtactc ccattcctgc caaatggaaa aaaaatgtgt caacatcagt  300
ctctggttca gaactgcaat aaaaaacgta tcttatctgg gccaaaagaa ttctctantc  360
ctcctggttc tgaattactt acagggtgac aaantgggca aaactgggaa ccatcttgcc  420
cnccccctgg gtgctatitt tccctgaaac caaccctccg gccttaggaa tgggccncta  480
nttttccatt acnctgnacc taaaactacc cctgataaaa caaccatcct nttttctttt  540
gcaaaaaagc aaaccattaa ttngccnctt ggaaaaaatt tntcccaatt taatcn    596

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<210> 9552

<211> 520

<212> DNA

<213> Homo sapiens

<400> 9552

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aactgggaga natctgaaca tggttaaatg cagataaaag agaaagatca gttgagggan   60
gtgacttang tatgagtgtg agggataact attggtatgt gtccaaaaga atgctgctct  120
tttcagaact acaaatgtca gaaaggggca tctatagctg ctaccgacca aagtaggaaa  180
ttttagagca cagtttctct aggaaatacc atcaactaac cctccacaaa tagctgagat  240
tgacagcttt accatggttt atttcacagt agaaaaataa ggtttgagcc gggcgtggtg  300
gtgtgcacct gcagctccan ctactcanga ggctgaggca ggaanattcc ttgagcccca  360

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cagtttgagg ctgcagtgag ctgtgatcat accactgcac tcctgcctgg gtgaccagtg 420
agaccttgtc tcaatgtggt gactcctgct tgtntgttat tcncncnctt ttaaggncc 480
aagaagatag atccttcct ccggaattcc anantaaccc 520

<210> 9553

<211> 587

<212> DNA

<213> Homo sapiens

<400> 9553

atgaagatat tttcctttta tttatcaaac atttcacatt catgaagtca tttacttcag 60
agcaaagtgn agcttataat attaaaaatt aaagtattac aatatttaca anatgggttg 120
caggggacac ttactagtat aaaaataata caaatattgt atttcctct tatctgccag 180
taaaaatggc aaacagtttt gtctttctga agtttctagt caataaccaa agatgaggag 240
cccctaataa agtgccttgc cctgtatgct ccactgtcta tagctttaga ccctcaacat 300
tcttcttcaa gttcagcagc tctttttctt gccttctttt ctccagttta aatgctaatt 360
tgtagcttt cttctccact cttcgttcct tgcgctcttc ttttatagct tgctttcttg 420
ctcttttate ttctttgctt tcatttttaa aaacgtggct gaattganac ttttaagaaaa 480
tactggcca ttaacntccg ttatcctttc agttggcttg ggngnantcc tttctttggt 540
aaaaaattga aaagtttcct gtttaaaaaa aattcaaatt gtttggt 587

<210> 9554

<211> 587

<212> DNA

<213> Homo sapiens

<400> 9554

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tgggctctgt ggggttcccc acgctcacgg ntcctttctc ccacactcac tgcccttctt 120

cccacagcaa atctatttca aggacagtac tttttaaaat gattaatgtt gagtttctcaa 180
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 tggttaanaa ggatagtcag gaatgttttt accaactcca agccctaatt catactcctc 420
 catatctccc accccaccct ttcaacccca cccccacccc cagaatttca ttgatatttc 480
 tcccaactgt tatttggaag aaaagttaaa caaaaaagtt ccangtcttt gtgccancca 540
 aagggggccc ttttttggga naccacang naaaggntnt tcccccc 587

<210> 9555

<211> 581

<212> DNA

<213> Homo sapiens

<400> 9555

gagacggcgt ctcactgtct ccaggctgga gtgcaatggc gtgatcttgg ctaatttttt 60
 gtagtttttag taaagacggg gttccaccat gttggccang atggtctcaa tctctcgacc 120
 tcgtgatcca cttgcctcgg ctttccaaag tgctgggatt acaggcgtga gccaccgtgc 180
 ccggccccct ttttatcttt gaanataaaa aataacttct tattttctaa ttctganaat 240
 gatttaagtt cactttctaa cctatccggg gctgttttag ttatttttga acttccagga 300
 aatctgcttt cgaacccaaa ttttattaag tgtnactact cggacagcct gccaatcata 360
 tcacaggata tcccaattgg aaagctattg ggaatgttcc ttcctcccn aagtanaaat 420
 caagttataa acgggcaaaa tttcctattc cnaagggcgn atttaattatt tcaattccct 480
 tccctcccc cttanaaaaa tnttaaaaag aaaaaattnt cccctgctcc aattttaacc 540
 aggtttnaaa aaatggtttt ggggtaatat tttaaattat n 581

<210> 9556

<211> 442

<212> DNA

<213> Homo sapiens

<400> 9556

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aacagctaca atttattgag cacttactag gtcttaaata tttgctaaat acatacacag   60
tactcacaat agccccagga aattatanat gtntttaagt ttnggatcaa tgagtaatcg  120
ttagctgagt aaaaagctct tttctaccct acaataagct cgacattaaa gactgacatt  180
ccaattaata taattaaccc tggacttata naactgtttt ctcataataa tgcacatcta  240
ctgntaaatg actactcnca aagttgtttt ctttttcatg ttcaaanaaa attacatttc  300
tttcctttca cttttccaat aaaatactct tcagttctac tctanaatct cttaggaaat  360
tntttgaaat anaaatcaat ttaagcccta taactanaan ctttttctct tgttgancgt  420
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<210> 9557

<211> 606

<212> DNA

<213> Homo sapiens

<400> 9557

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agagtgc aaa atgtttctta ttaaatactt cagggaacaa aaagcaattt gtttttaaac   60
agaggcatcc ttttctgaag gatcatcacc acaaagacat ccattgccgg caatggacgt  120
gaacagaact gccagctcga ataagatgca acgttaggac tctgccttca gtttctttgc  180
ctttcccgat gaccccagtt atttgtacaa actcattgtt ggactctggt acatgcacat  240
atatgcatca caaagcagtc ttcgtgcaca gccttggatt ctcttgaggt ccaaggaatg  300
caggtcttcc aanacatct tcaagtactc tcctacttct gggcatgggg tgacttgagg  360
aatgttgaac cattctgacc accatcccga tcggccatgc tgtcaaaaaa aaaccagcaa  420
aatcnccttc ccatacttca caaaagcaca tatgggcttg tttctatgca aaaaacaaca  480
aataactcca tattctggca aggggatgca nccgtgtttc catcccatcg ggttattctt  540
tgggaaatna ccnngggttt tttttttaat cccccccctc cgaaaaaagt ggaattnaat  600
tttccg                                           606

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<210> 9558

<211> 556

<212> DNA

<213> Homo sapiens

<400> 9558

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agaggtgtca tgtttacttt ttatttagga gtacaaactg agacaaaatc atccttccag   60
ttagtgaggt tttagaggat cataactaaag agaagacagg aaaacaccag taatggtgaa  120
ggtcttgaga aaaggacagg acccgagat agcganagat cagaggaggc cctaatttct  180
ttcctcattt cctttccaaa tatcccaaatt gtgcaatgca tcacctgaga cagaaggcag  240
aaagcatcaa gctctctgtt tatcccaatt caatgacaac cagaacttat tttttttgan  300
atgggggtctc gttctgtccc cangctggag tgcagtgggg cattcatggc tcatcganc  360
ctccaactct cantctcaan caaccncct acttcagtgt cctgaattan ctggaatata  420
ggcatgcccc ccacacttgg ctcatTTTTA aaaaatttct ttttnaaaca ngatnttgct  480
acattgcccc agncttgaat ttentgggtg cattcccanc tcccncagg ctcaaaatcc  540
ttggtcccaa acaatc

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556

<210> 9559

<211> 520

<212> DNA

<213> Homo sapiens

<400> 9559

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gttttcttat tcttttcttt atttgtttaa accatagaga tacaggtgac agtttaccac   60
tgaagttctc aatccttaaa ttacattat tttagacata ggagaatagc ttacattctt  120
agagtaaata gtattctgag gctacagcct atgtgcatat gtttatatat gtatttgttt  180
tagaanagct gactattatt ccttgattaa ttttattttg aaagttagtg ctccagctat  240
gctagtttat gtcccagggt atttgggaca ccacacctca aggatatttt tgaataattt  300

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tgagattctc aaccactatg agttgataag ggatctagac ttctcagaga catgaaatta 360
 gaaaatgtga ttttaaaatg atacttaatg aaaacataca gttcagaaac actgaaataa 420
 tactatttta nttttaaacc ccaaatacatg cattcatgaa aactttgggt tttacnttca 480
 atgccctgt nnttcanaat naaaaaactg aaggccnaaa 520

<210> 9560

<211> 588

<212> DNA

<213> Homo sapiens

<400> 9560

aaaagttgct gttanggact ttattactat tctcttttag gatacatcaa catttgaatt 60
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 aattttaaat aattttattg ttactaaaat ttgatataac cttaatgatc tttcagcaca 180
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 aggcaatatt ttttggtcag gttctcctcc agtctgcagt caatgtcctc tgcatcacta 420
 caaaatgatg gggaacattt tttccagggt cgtctccaat gcttcanaaa acttcttcac 480
 agatctgtgt ctcacaacna actgctttgt nnaacatctc caaggantga anccgtggtt 540
 gcaaaaacttt tttggccatc tggccatccc tggtaat ttt gttccan 588

<210> 9561

<211> 589

<212> DNA

<213> Homo sapiens

<400> 9561

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taacagaatt cgtttcgtga attaatgcag tctgtagtaa gcatatcata tagcagtatt 120
 atccagttaa agaaagatac agttgaaaaa cattacgttt taattctcca tgagtaaagt 180
 gataagtaac tataaaatca ttattgggag aacatggaaa cagtcaagca taacgaactt 240
 acagaaagat aattatctcc aaatttagga agtacatgta cctgcctacc cacctcttca 300
 agcctatgct taccacacgt gcaaaaatac aatacaatac aactactgca attattacta 360
 tcattttctt ttgcccttag gtgaaaaaca cctgacagct acatgctgag ccatgctaac 420
 aaaactaaac ctttcacitt ctttaatagt aaaattacca ttactgaatc nttgtcctaa 480
 aaagtgttc cagttcttac cncttatttt aaataaacnc cattttgaaa catcnncttg 540
 aaaancgctt aatttttttt taaccccgat acttccattt tccccngg 589

<210> 9562

<211> 456

<212> DNA

<213> Homo sapiens

<400> 9562

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 gttccagcaa ctctctcacc tcagcctttc gaatagctgg gactacagga atgtaccacc 120
 atgcctgggt aatttttgta tatctgtatt tcttgagag gcggagtctc accatgttgc 180
 ccagactggt cttgaactcc tgggtcaag aaattctcct tccttacctt cccaaagtgt 240
 tgggattaca ggcgtgagcc actgtgcctc gtttattcat tttttcaatt tgacttaagt 300
 aaggaccatt tctctgacta atatgtattt aattttggaa gttaaaaaat ttnggagcta 360
 aaagtatgat ctgaaagacc gaaacanatg ctcttttacc gataaagatg gatcnaatgg 420
 tttangaaac taaattacct acnggtncag ntctng 456

<210> 9563

<211> 427

<212> DNA

<213> Homo sapiens

<400> 9563

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ctttaagaa aaattgantt tattaacaac aaaagttagg ggtggggaaa aaacaaatna   60
aanggtcaca aacagaacac taaaaaatgc ttgtctgctc acaataatgg tgtctgaaac  120
cagccctgaa tgccctggga ntcantcact gtcactatca gcttcactgg aatcagaact  180
gcagcttcac tgccatcctc ctgggccgan tgctcgctgc cactggggga aaggactggc  240
gctgcggctg tggctccggc tccgctggcc accccattg ctgccgctgt ctgaatcatt  300
gtcactgcca ccttgggcct gtcctctgtc ctcacatca naatcngcat cgtcctcaaa  360
atcancatca ctgcaaaaan atntcctctt tgtcncgggc aaccggggcc tcatectcnc  420
tgctctc                                     427

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<210> 9564

<211> 590

<212> DNA

<213> Homo sapiens

<400> 9564

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ctaatttccc ttttaatttgt agatttaacc acagaactgt ctcgattttt ataaaaattg   60
atcccaanat ccaccttctg ccgtggctgc cacagtccag gctgagcttt tcctcctgag  120
ccacacacgt gtgttcccggt ccancctaaa ngggaaaagt gtgggggtggc ggggcgggga  180
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cggcacagac gaanacaaca caagacacac aagcctgggc ttccatcctc aggactaaaa  300
ctgcgctgag agcaattcac ataatctctg agaaacggct tccttacttg tgcgcagcgt  360
gagccggtag atctgggctt gcagggtcgg ctcactgtca tggatgaatga ttaagctgat  420
ggcctcgaaa agcacggcat tcttcgcgtt ggagtgtctg accttcttcn acttgggcgg  480
ttcttgggct ttgttcagga tggctctcaa gcactcatca ggcggtccc ctgcaaggtc  540
tggggtttgt tacactcccc atccccatt tgnaaaanac cncggaaccg                    590

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<210> 9565

<211> 595

<212> DNA

<213> Homo sapiens

<400> 9565

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agaaaagcta atttaaaata tttagaaata gctagcctat gtacagcaag ttttcatgtc   60
tttttttaaat aaatagattt ctaggagtca gtatatattt aatactcttc ttccttaaga  120
aaatagaagt ttaggtcaag tgtaagctt taccactttg acactgtcct tatctcacia  180
tgagggaatt tagaaaggac cttaacagtt tcacaaacat aaataaagcc ttagtcacac  240
taaattaaaa aaaaaaaaaat tccttaggga tatcttanen tagtaaagtg acttcctcat  300
ataaatagtt tgaaagggtta cttagttttt tcacccaaat tgtgatatac aaaaagggtta  360
ttaccaagca acctacatgt caagaaagcc ccanttaggg aaggagccac agcatttata  420
ttgtttataa tttctttggt acccccactg tttaaancac aggttgaaca ccatgttcat  480
ctaancctta ttanttaaaa aatntntntt ggcaaggcaa ataactattt taaaaaacat  540
taanttcccc atttggttaa atnccgtttt aaaataacct ctataccact ataaa      595

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<210> 9566

<211> 542

<212> DNA

<213> Homo sapiens

<400> 9566

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aagagacagt gtcttgctct gcctcctagg caggagtgcg gtctcacgat aacagttcac   60
tgcagcctcc atctcctggg ctcaagcaat ccacccacct cggcctccca cgtagctggg  120
gtacaggca cgcataacca tgcctggctc ttgtcagtat gaatccctgc tgtgtcccca  180
gcatctanag canagcctgg cacatggcag gccatcttt gtggagtga ctgggaacag  240
gancgtggg atggtggagt gttctaagt agacagccac agtgcccgtc ctgtttgtc  300
ctctcgcccg aactgccact ttcantgtca ggactgggga aaaacatagg caaaaaggcc  360
tgaaatccaa gggaccccan gctgccact gccacccgc caccatcanc tggcccacac  420

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tcananggtc tcccacctcg gcctggccan cgcacaaaag cctcccacct cggcctggcc 480
 aancccccaa agctccccct cggcctggcc cnnnccccaa aaggcccccn cctccgcntg 540
 cc 542

<210> 9567

<211> 382

<212> DNA

<213> Homo sapiens

<400> 9567

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 tgagcaanaa agtctctgga tticaggaga aggaaaacag ccccnagggc agganaaaca 180
 cttgtgaagg gtccattgaa aanacanana gggggcagct ctggcctctc tgctgccact 240
 tccctcattc gatgcacagc ggtggggctc acaccatttt ccactcance tcttcgcac 300
 aacctgcaca tctatcgttt cttcaggggc tgganctggt tccaccatgc ctanccnaaa 360
 tcanganggg gtcctggggc cn 382

<210> 9568

<211> 553

<212> DNA

<213> Homo sapiens

<400> 9568

caatcanaaa aggtttttatt ataanaaaca atgacatcag gtaaaaatgc aaaaaattgt 60
 gcaattatgg caaatgttt aaaaatatct acacatttgc cccacagga ctacagtact 120
 tactacatac ctgagcactg aacattgaat tccattttaa actgctttac atagggaatc 180
 tgattccttc atgatcacat ccatttggtc tcatgaccaa taaaatcagc ttgatgctta 240
 agcatcaact ttgttgaaca gaaaacaaag atggaaaata aagaatacaa tttctacttt 300

cctataacat anttataccc antccagttt tcaatgtgtg acaaatatat aggaaaagtg 360
 ctncatacat tcttcaaatg caaaaacaaa nttaaagtgg aactggcatt attttnaanc 420
 tacattttaa ttccgtttta ccnttgtgcc ttttacttaa ngggtctgcc ccnctatgaa 480
 aatgccccctt aaatntctaa attataaccc ccccttttcc tantcctact tttcnangga 540
 cccctcngaa acc 553

<210> 9569

<211> 353

<212> DNA

<213> Homo sapiens

<400> 9569

cttttttgcc ctcatttttag ttagttgaag tttcttgtgg ctctgtagtg actgctctga 60
 tagaatatcc cttacaactt tgtggcagtt aatttctgga tgatcactgt gacttccatt 120
 tacatgtatt tggcaagatt ttagagtatt ttcttttaac ggactggggt caatctttat 180
 tctggaagct tcaccgtatt tttcctgatt ttctataaac cttatttcac ctgtacngag 240
 aggctctcca aagccagtaa cttctcctgg actccttggg ntctctaaat tttctntaca 300
 acaatcagtt tttttaattt cacaaggncg gcganttcta nttcatnnt tgg 353

<210> 9570

<211> 566

<212> DNA

<213> Homo sapiens

<400> 9570

acacattaaa tgtaccacag tttaatagtt ttgtgatagt tcaataactg tcatttgctt 60
 taatctacag aatttttaaaa aatctaaata aaactattac gctggccaga taaaatagta 120
 acaaaaaaag taaagagata taaaacaaac tgtacactat tacaaagtag tggttctctg 180
 tatgtctatg tgtatatatg tatatataaa actatacaga tacatgtgtg tatataaaca 240

tacatatgta tatatacaca catatactta attttaaagt taatcaaag gttatcaaaa 300
 attaatatac aacaaagatt cctgggaagg taatgcttat ataaaataag gccatgtttc 360
 taaaaatccc tcaaatacagt ccaagataag atttttaatg aaaaacataa aaggttaaag 420
 aaatccttct ctccaagtta gccggttttc cccactgtt ttcctcctgc cttttcccgg 480
 tgggtggcca aataaacctc ctgtgacct naaaggccnc ccnccttna aatggccncc 540
 ccccttatga aaaaatcnac ccccaa 566

<210> 9571

<211> 604

<212> DNA

<213> Homo sapiens

<400> 9571

ggatgagtct tccgttttat tacaaaaatg aagatcagtt tgatcaaaat gaaagcttgt 60
 tcacaagttt tacatgaata ttctaatac aaagtctcct gaaacaacat acttttgata 120
 tgattttcat ttttaaaggg atgcaaacat tccattttct catttataat ctattccaag 180
 gcaaagtatt ttaataatgt atcctttctg cagttagatc acaattcaca agtataactg 240
 aaacagacaa aaccttgtca gcaaaggtta aaagtccttt tttctttaaa aaaaaaaaaa 300
 aaagggaggt naataaccag cccttatgtg ttttcagaat ttgtactac actgacatga 360
 tttgcagtca ggtttttctt cctaccctt aaggntacaa aattctgttg caaatgcntt 420
 gcaaaanaat ctanaacact taatgccaaa atcaaaaaat atttccata aaaantaatt 480
 ttataaatgg ttagaaacan ttctgtggtt aacnacnaat tgaaatttnc cccattact 540
 aaaccaatcc tntttccca aaacaaggaa aanaggtttc cattccacaa nctttaccgg 600
 ttan 604

<210> 9572

<211> 495

<212> DNA

<213> Homo sapiens

<400> 9572

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ctattaatag gatttttatt tagatccaaa aatttgagat ttacaacttt ttgaaganca 60
acatggggtn ctttaataag cctgttatcg taaaaagana tgctttctaa gttttccagt 120
ccaaccaagg cgttatctgg tatttctgtg aggtttatac cagctataac caggctgcga 180
agattgataa gaggcttaaa gttcatgtct ttgattctga taattggatt ttccccaatc 240
atcagaatct ctagatttgg aagagcatca aaccacttac tgttgatcat ctgcaatcta 300
tttgaattga gatgaagtcg aagaanatta tgtnggccaa taaaggctcc aggtgaaatt 360
gtagaaagca agttgtgatt aatataaaat tcttgtaagt tgctcattcg gacanacntt 420
ttccaggcag ttcantaagt ttggtttccn ctaggtncnc aaaaaggaac cgaagctcct 480
ttttacntta atatt 495
```

<210> 9573

<211> 529

<212> DNA

<213> Homo sapiens

<400> 9573

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aggtttaata attatittaa ttacaaatth ccaccaattc ttgccagtca tattattgtg 60
gatatcacia atgaattata taatagtata ttacctata ttcatctgca tgaaacttag 120
gagaaaggag agcagaaatg tataagtttc tgagaatgac accataaagc tcatatttac 180
agtatggtag tctgtaaaca tacaggcctg ccagttaaag cccactcttc tatcatcacc 240
cagctgcatg accctgagca agtcactttt gtttgctaat ttttaatatc atctatcacc 300
tgacttctct atctacgana gttactggc tgcatgcaaa ataccatgaa aaataccatg 360
cacttttaag tgtgaantac cctggtaaag tgacttatat attactggct tcctattttt 420
agagtattaa tattcatacn tcagttaaaa ntccacatgt gttggctaan tgatcctttn 480
gaaaggatcc tttaaaantt cctaggctca nctccctgaa caaccggtg 529
```

<210> 9574

<211> 495

<212> DNA

<213> Homo sapiens

<400> 9574

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acttgcaaat caataat ttt aattttctca ctctgataaa aatcagaaag caacatttat 60
aaaattgcta ccacatcact ttcatagca gggaaccgaa atctgtacat ctcatttttg 120
cagaaaagta ggcaggcaga aagaattata cataaaagtt tccaaaagga aaaacaaaga 180
aatatttaat ctgatctctt ttcttttaaa aaattaattc agtanacttc tattttttcc 240
tgtgtaacat gggaattcct ggctctaaaa tggatgaatt ttcagtgtca gtgtaaaaaac 300
atcttgttac ttcttttaaa ataaaaactg cagcgtggaa attaatgggtg tattacgcat 360
ttaaactccn aataggccgg gaactggaac caagtgttaa gcaatttgct taattattga 420
cttncgtaa naaaantcta ggggaagggg gaaanaaatt nctttaacct cncctncaaa 480
atttctccgt tcatt 495
```

<210> 9575

<211> 370

<212> DNA

<213> Homo sapiens

<400> 9575.

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gcaggtagct taccacagt agctctggag tcaggctctc tgggtttaaa ttccagctcc 60
accatttaac tgtgtatcct tagatcatca ccccatacct caatttcctc ttttgaaaga 120
gcagttcagt aaaagagttg ttacgagaat aagagtttat aaatgtgctt ggtatataag 180
aagtattaa gcaaatatcac catcagcagc agaacacaga atctggtaga gaacaacagt 240
ctataaaatg aatctaggag gatctcagtc tcctctcttt ggaaactccc tcctcttttt 300
tattttattt tgagacnggg tctcgctctg tcaccagctg gaatgcaatg gcatnatnnc 360
nggtcantgn 370
```

<210> 9576

<211> 604

<212> DNA

<213> Homo sapiens

<400> 9576

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aagttaatta cagcatttga ggaagaggat ctaattccac acaaaatgga agactctaaa   60
atgtacccat taaactgcta aaaaataaat tgagtgggtga gaataccaca taagcccagt  120
ttagattctg agtgctgtca ccctgtgatt acaattatac agactcttcc aagcttatag  180
ctagagctcc tggaagctat tttatacctg atgcaaggac aaaaaaacca caactcagga  240
aggaattaag tctgaatta ttggcttcat cacatccacc ctctccaccc caaaacagca  300
caaaagaaac agtgaccaca ccctgtagat ctttttgtgt aaaagaggta atgaagacct  360
gggatgggaa caagtcatga agatctgtct ttaaaaggtc ctttcaggt aaatttgtac  420
acaccatcaa gcaacaagcc tctcatcagt tanggttagg aaaccaaggt tcaattctca  480
ggaaatcaca atttentttn tttactccat ataatttaca aggtgcctat atttatccnc  540
ttccccttgc agccctttct taataaaaaa aaaccggctc cctnccgggg gcnccaattn  600
ccca                                                                    604

```

<210> 9577

<211> 539

<212> DNA

<213> Homo sapiens

<400> 9577

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ggcatcctca accaaatgtt ttgaatttat tataatcgtg cttctctaca actaatgatt   60
cttgtggttt gcaaaccatg tctgccttta tttacctaca caaacacgga acagaatttc  120
caataggaga ggttcacaca gctaacaaag catanantgt gtgacctcaa taaggnattc  180
aacaanaca cacgccgtat ttccctctga ctgcgttccc ttaggatgct ctgatgttgg  240
cgtcgcattc ttctaaaagt agaatcaaat cttcaatcag gctgtgttct ctgcatgtg  300

```

tcactctcat aatatcaaaa gccagtctca gattcttcat tgcttgggga aacatgcctt 360
 gatgtntgc agtttgccaa ctttcatcac ttgaaacccc tctgacggga tggcttcctg 420
 ggaaaaaaat cctgtttggc tccatgggtcc gagtaccata aaanaaggct cctccacang 480
 ccnaaggtn atncaggcat ccatggggcc attcaaacac cttcncnngt aaattttta 539

<210> 9578

<211> 520

<212> DNA

<213> Homo sapiens

<400> 9578

gaattcaatg tatttacatc aaaaaattag gtagtcattt tacatttaag gaataaaaac 60
 cttaaaaaaa acaatacaaa gagtgaaagg attttaacca agtttacatt tcttttngct 120
 ataattttta acaacaattc gtctcatcat aacttaatgc aatgtgcaaa tgcagcaccc 180
 attacaatca ttaaactaaa ttaaggaag tacattgtta atagtgaccc ncggaggaaa 240
 tggatttcac ttctattaaa aactctatgg tatataagca ttacataata atgctactta 300
 accacctttt gtctcaanaa ttatcaccaa agttttctgg aaataagtcc cataagaatt 360
 aaatatttaa aaggtgaaat gttccttatt ttaacttttag caanatcttt tctttttcat 420
 taanaaacac ttaataaatt ttaaagcaaa agctgttana atctaaatag ctaaaactgt 480
 tcnccgaatt caancctaca aanaaatctt ttgttannta 520

<210> 9579

<211> 437

<212> DNA

<213> Homo sapiens

<400> 9579

gactagctta ttttcttttt aattgaaccc aaaagaagct tctagtatgg agcaagtctg 60
 gtggaaaagc agcatatctc ccagganana anggaaacgg agcagggcca atcatcaggt 120

gacagtgcag tgctactcat caccatcatg aaaaactcat gagcgtcnga cgcgccacag 180
 ggattcctga tcaggtataa tctgctatta ttatgacaag ctccatanaa aaatgtntac 240
 agcagggcag aaagacatta ttctttataa ataaaagggt catctgtgca atattcacat 300
 tagaaaaata tacattgcct gccataaacc ttctctggat aaaatcanac aaatctagga 360
 tctgactecn cttcncgtg aaggctctgg ctccnccgtg acaaacgact ccncancttc 420
 taaangaact ccttcta. 437

<210> 9580

<211> 562

<212> DNA

<213> Homo sapiens

<400> 9580

cacacaatat ctcatttaat ctttaaatca gctttatcca acataaacta ttaccctgat 60
 ttccagatgc aggaaactga ggnataaaaa cgtaaagtaa cttgtatgaa gtcaactggc 120
 tcttgaatga anaaattggg gcttgtaagc agtctgtcta aatccaaagc tctatgacct 180
 cattatttca ttttaacttt aaatagtaaa acaaaataac actaattagc atctgatagc 240
 ctttaaaaat agaacacgga ataattcatt ttaataactg tacattttta agaattatat 300
 actgaaatag ttaacgtact agttgccatt ctttcatttc attaaaagaa atctcttcct 360
 ctatttgcca tttcattaac ctactctagt tactctggat agttaacat aaaatttaac 420
 ttttaataaa aataagtcn taatccgaat atcctctact ccancccaat ttctgaangg 480
 ttaatatntt ttaataaaaa gcaattatcc cggttacttg tcgggaatgt ntttccccn 540
 cncctttcnc tccccctcc ac 562

<210> 9581

<211> 488

<212> DNA

<213> Homo sapiens

<400> 9581

```

ctatgaacta gttttatttg catttaacat gattatacac attcatgtgt ctaacaagat   60
ctgcactggt acattaaaaa tacagtacaa taacattcna catgaggtac ttentattta  120
tgtatttttn ccentntaaa taatgctgta agctactaaa ttcnagcaca ctgatgcaca  180
agtgactaca gtgtcttgaa ttagctgagc ttatttaaac accttaataa acaaaaaagt  240
tcagtgaat aattatgtan aaattagacc atttacttaa atactatfff aggatatgct  300
taaagaatgt cacattagaa ctgctagcct aattcccttt atccccngaa gtgaacaacg  360
acaagactg ccngccagat acgttgggga aaancatcta cagtgtntnc tgcttaataa  420
agttgtgttt ataaaataaa tttgcctgct ttgttaaaac aatggttnc anttttaaaa  480
nctacnaa                                     488

```

<210> 9582

<211> 577

<212> DNA

<213> Homo sapiens

<400> 9582

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attatcttaa aaaatggctt tatttacagt catggaaaat gctcnagaaa atacctaaag   60
tnagaatacn aaaataatct atattaacaa gtttgcttct tgtacctgct actaagtcag  120
tcattaaact cactgcaggt gttggaacca ccatatattg ttagaacttc cataagaatc  180
aaaggagatt atggcataat ctaagaagaa aatgatctgg ctaatgtcca ctgtaaacct  240
tagctacagg cttttatfff tacaaagaca aaaggttttc ccttaagttg attcaaagcc  300
ttgaagtagg ccacttaata ncagactgct gactgtcaca ggggtgtatat ggatgcagaa  360
tgttcatcag aaacttgagg tggttaccac caccttataa acatttaata attaaggtcc  420
ataaattcng ctctcctaag tggnaagaa ttaggtctta cttgttaaaa aaaaaaaact  480
cttccaacaa ngtgatgcct angtnctgaa cngaatencc aaaatccctt cctttccttt  540
ccttttaaaa tctttccggg cncacttttc tntttcc                                     577

```

<210> 9583

<211> 568

<212> DNA

<213> Homo sapiens

<400> 9583

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aaagcacggt gcttgacaat actatattga atgcaataaa agttggattt cattcatatg   60
tacaacaaac tactttcttc ttcacttcaa gattcggtac aactgttcct gaattccaac  120
tctccataca tcccaatgtc aggggtccctg tagctcggan cccttatcca ggtanatgaa  180
ctgctgcccc gtgaacacta tgncaaaagc aatttganca ccattctctt ttctggcagt  240
gaggtaaaat caggtctttt tggaagggga naanccacat tgcattctctg ctacacacaa  300
nattactctg tcattgcctt tgaatctttc acgtccctt cttctgaanc atcagttttt  360
atggaaactt atcacacctg tcttgtgggn ncatcttgnt ccacccctcc tctcttccta  420
ttgtccgttt tccggtattg aattaggga aattttcagg tntcccgtn ttcccgaaag  480
aagggtgttt ttctttcnaa aaaaagaaaa gtnggggnct ctgaaaaatn atcctcctgg  540
cttnggggaa caaaacccaa aggaattn                                     568

```

<210> 9584

<211> 530

<212> DNA

<213> Homo sapiens

<400> 9584

```

gacattttta acactttaat tacttaaaaca acaagaaaag aaacatttat aaagcatata   60
ccaaggctgt ctcaggtttt aggatgtgga gaagccaatg gtaggctgga tactctctgg  120
ctacttaaag ccttaccat ttaanaacat ttgtgggata ccactgacta tggatcatggt  180
actcctttgc ttaagangag tgcaagatca ttcaganaac acaganaagc atgctccact  240
tactccancg tggacactgg ttttgaacct tggttttgaa aaacacatct ctttgcctng  300
cataactccc tgcagtcnaa acatnancct cctgcctcaa aagcttttaa tgccccaatc  360
tattatccac tgcttctgan gtccgcagcc tcacctgaaa ntctgtgtcc ctaattctct  420

```

gggaccaggt ccatggggaa gaaaaattcc ccttctctcc cncctggcat gaaagggtgct 480
 acanccncng catcntgaag gttccccccc ggtagaacc anccanaatt 530

<210> 9585

<211> 591

<212> DNA

<213> Homo sapiens

<400> 9585

gttgctgttg tttttttttt aaataaacat catcatctat gtgtaatcaa attcccatat 60
 tttcttccta taaagaattt gctttagttt ttcaataagg catttttttg tcatccaaac 120
 atctcttcct tttaaaattt tcttagagtt aaaaccataa ataagaggat ttaaaccact 180
 aaaatgacac gtgccaacat cttcattcag ccagacctgg taaattctat caaaactaga 240
 cagttaaata agaaccacgt tataaaaata ttagccaaaa aaagactatt agataattct 300
 gcaaactcaa atatgaaact gtactaaaca aaatatgtgc aaaggtacac aagcataaan 360
 ccacgttggg ggttatgctc anattaattt taaagctcgc tctagtggat ttaattcaag 420
 aattgtccac ggtgggtggg tttactttga actcccncca ntcaagaaa aataaaatat 480
 gcnaaccac ttcccccaaa agttcttatg gaaccgggcc tcacntgttc acaccagaa 540
 ngcctggggt ttccaaggn cngggggtgg gaaagaaaaa aaaaggccct n 591

<210> 9586

<211> 588

<212> DNA

<213> Homo sapiens

<400> 9586

gagacagagt cttgctctgt cggccaggct ggagtgcagt ggcgcaatct tggctcactg 60
 caacctccgc ctccagggtt catgccattc tctgcctca gcctccanag tagctgggac 120
 tacaagcgcc cgccaccatg cctacctaatt tttttgtatt tttagtaaan gtggggttta 180

actgtgttgg ccaggatggt cttgctctcc tgacctgtga tctgcccgcc tcagcctcct 240
gaagtgttgg gattataggc gtgagccacc gcacccagcc ttacgagttc tttgtatatt 300
ttggataaca acagtttatc aactatgtct tttgcagata ttttcttgca tccttggctt 360
gtcttctcat tctgttaaca gggctcttca cagaacagaa cttttaaaat tttaatgaaa 420
tcccagctta tcaattatct atttcatggg ttgtgccttt ggtgtttcat gtaaaaaant 480
ctccaccata actaataccc aatacccaat gtccacanat ttccccttgt tgtctcccag 540
gattctatna ttgtccttta cnttgggcca taaccctttg aattnatt 588

<210> 9587

<211> 588

<212> DNA

<213> Homo sapiens

<400> 9587

gagacggagt ctcactttgc ttccaaggt ggantgcggt ggtgtgatct cggctcactg 60
caacctctgc cccccgagtt caagtgattc tctgcctca gcctcccaag tagttgagat 120
tacaggcaac tgctactgcg ccagctaatt ttttgtatct ttagtaaana tggggtttca 180
ccatcttggc caagctgggc ttgaactcct gacctcaggt gatccactgg cctcggcctc 240
ccaaagtgtc gggattacag gcgtgagcca cagcgctgt ccaatcacag gattttaaat 300
tgtataatca gagtccaagt ctctggttgg ttgtttttat gcagattgtt tgaactgagt 360
ctcagtttac atctaagtga anccagtact tgcctgattg tatanggtan cantatgcaa 420
actaaatctt ggaattgtca gtaatgaaca ttatttaaca cacanggan tgatattggg 480
tatatttttt atgtctcccc ttgttcctta acttattccc catgccnaac tiaagtttac 540
antaggtnc ccaataatat gttgaatatt ccncccgga ttttagang 588

<210> 9588

<211> 430

<212> DNA

<213> Homo sapiens

<400> 9588

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gtccgggtct acacacagtg actttattac tctatggatg ctggtgaact gccctcccca 60
accagcttca cgggggcagg catctctgtc catcccatgc ctttgggtca cagggggcag 120
caagaccaag aanaccacag ccaggccctg ggttcagctt canaaccatc acccgctgcc 180
tcccccaacc cccaatctcc tgagggganga naattcctag ggacaanacc canacccctt 240
tccttcagcc tctgtttcac caagggggcc tggcctgcgc ccaaactcct cctggcctgc 300
ccctcaaggg tccaagttct cactctgtc ttcaggcang aaaaaggcag ggaaaaaaga 360
attgaagaan gaaaaaggaa gcttggcccc angaaaaaaa aaaaggggga aaagaanaaa 420
tttnnnaaaa 430
```

<210> 9589

<211> 561

<212> DNA

<213> Homo sapiens

<400> 9589

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ccattcctca cagcacattt atttcagtaa ttctgttatg tcggttctta gcatgagcat 60
agtgttacac gattttcgta catataatca catccaaaac aagttctaaa atttaaattg 120
taaacattct catatgtana aatattttta ttgggtgtatt aagttttgct aactgatcaa 180
atttgggaaga taatataaat ganaacgtct attctaaact gtgtagttag cattgtttat 240
taattacatt tctacaatgt taaataaagt aagaggcaaa cctgtcctgt aagcatgtca 300
aatttttaggt aaaacattaa aaagaaacaa acctgttaac aaaagaatgt cttgcaataa 360
agaacattag atttttaaaa tctattatga taaaaaatg taaagggtaa atagcatctt 420
tggtgacaaa gtaggaagta catggatgcc cactttattg tctganaaat gcactggaat 480
taanaanatt ccctanccca aataattccc naactatgtt catatttctt ttaaaaaaac 540
ctgttttaac naatcncccc c 561
```

<210> 9590

<211> 489

<212> DNA

<213> Homo sapiens

<400> 9590

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gaacaaaata aagcttttatt tgaactccct cccctacaga tcattcaaga tgcccgggac   60
catgtccagg ttcctctcag caacatggaa agctaagcca tttcaciaac gcacaactgt  120
agctacacta cagcccccca tgcccagggc acagctttgt tgctaagcct gtaacaaaag  180
accaccactc agtattttgtg taccctgcag ccaacaccac ctcttgggct tcacagggtc  240
actcacccaa gaggccagca caaccacgac cgagtgggta ctcagtggcc cagacacccc  300
ccgaacactg gcactgccac aaggccctga agggtagact gtggggcaaa gaggacaaac  360
tctccctccc ctaagggacc cggtcactg ggcctccttc ccctgccaac cgccagcccc  420
tgcatgccta gcagggaggt aagcaccac tggcgtcgtg atttcnanta tcttgctaata  480
nlnannacn                                     489
    
```

<210> 9591

<211> 431

<212> DNA

<213> Homo sapiens

<400> 9591

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gaaantatgg ggggtgggtgg cttttgggaa ggaaaaacgg ggggaattga aaaactttctc   60
aagtgtccac tctgtttttg anacagtaat taagattcan aaagctcctt attaatagct  120
cataatttgg gggggcactt canggactcc aattacaaag ttcaaaataa atcactgcac  180
gtccccctccc cctccccca aaaaaagaaa aaaggactaa ttttagataa cagaaatcat  240
tctacaaaga actggattat gagggggcaa gggantaata nccaccangt tataaggaac  300
cctaaaacat cacanaaaan ttcactgact tangangccc aaaatgcaag ctccagtaac  360
aacataaagc tgctcaaatg ctttctgaaa ncataaacac tgttgtcttc antgggggtn  420
tnggggggnt g                                     431
    
```

<210> 9592

<211> 534

<212> DNA

<213> Homo sapiens

<400> 9592

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cttttttgta nagacggggt ttcaccatgt tgtccaagct ggtctcaaac tcctggactc   60
aagcgatccc cctccttgga ctcccaaagt gctgggatta cagatgtgag ccaccgcgcc  120
cggcttaaac attttttggt gttgctctcc ggctttccct aaatataaga taaaatgtaa  180
tttatttgca gatataaaat ataaagccca gctcagggcc atacgccact tttcccangg  240
gagcangagc tcgggctctg gctggggaga ataacttana tccgtgcaat aaataaacag  300
tggggagggg cagtgtggac agtggtgggg gagggactga nactgggctt cccacgagaa  360
tgacaatcaa aggcaggggt canccccac cccacagtgg acactgacag gggttgaggt  420
gggaccttct tcttangacc cactccanac tgtantanga ctgcaggtct gtctccttgt  480
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<210> 9593

<211> 493

<212> DNA

<213> Homo sapiens

<400> 9593

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acatgcacac atatTTTTat ttaacttang ncctgattat tagtatataa aacagaaaaa   60
ccaagtgcct tggtaatTTa catatcttct ccaaattctt aaagaaccaa gctctaaaaa  120
acacacgtaa agatattTTa gtentaaaac acacacacac acacacacac acacacacac  180
acactcaaac tTTaatgacc ttcaggaacc ataatccaat aatatattta ataggtaaga  240
tctcattcat caatatacaa aaaaaaaaaa acaaaccaga aaacaaaaaa ctaactttga  300
ttaanacatg tgcccttagt aagggcactt acaattagaa aggtttatcg gtagcacttt  360

```

gaggtagcat attttgtaaa gtccagggct gctctgcagt ttctcctgga taaaaangta 420
gaaggcatca cccttgcccc ggaaaaagaa aattnaantt tctgttctcc ntggccnttn 480
ttncctgaaa acc 493

<210> 9594

<211> 518

<212> DNA

<213> Homo sapiens

<400> 9594

aaaatttact gtttatttct ttgttacaca aagggtgtcc aagacatctt agtccatctc 60
ctatgtcctt ttggccataa ttacacacac aataatggca agctagatta ggagtctagc 120
tcagggtcaa gtttttccac tttaatgact atctctggag cttaaagcggc agcaccagct 180
tgttggttct ctgcctctga ctccgacaac acttcttctt ttatttttac aggcttatta 240
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tcaaatactc tcnatgaaa aanaattgan ctttacacnc agganacttt tcgaaaacca 360
ttcccagcaa catactgtgc tttcatactt tccantaatc tccattgctt ctccaaatgc 420
atggtacggg tgggaataca ctacctttc nctaccctt ttaaanaatt ccngtgnaat 480
gaantcccc aaatctccct gtttttcta aaaanaaa 518

<210> 9595

<211> 496

<212> DNA

<213> Homo sapiens

<400> 9595

aaaatgtcaa taacaagttt tatttacaaa gtaatcgtcc tctcacatca catttggggt 60
tacatgtntc actgttgtac gctggtagca tggctatttg aaaaattata atttatganc 120
tattactcag tgggattttt gcaataaggt acttcatgaa acaaaatgga aaaaggaaaa 180

ttaaattaaa atgcncaact aatattttatc tactacagac ataatatttc tcagttgtga 240
 actaattact atgcttggaa aatgctanca tccnntaaa tattttgggtt ctattgggat 300
 acaaaatctg atttncnnaa ctttgcaaag gcacattttg gctgggcaca atggctcaag 360
 gctgtnttcc caacactttg ggaagcaaaa gcgggcggat catnaaggtc cggaaatcaa 420
 aaacntcccg gctacacnat aaancntct ttttaaaaat accaaaaaat taccctgcct 480
 tgttgcngga acctnt 496

<210> 9596

<211> 547

<212> DNA

<213> Homo sapiens

<400> 9596

gatggctcaa tgtttctggg atataaactc atcaggcatg ggaaggattt ccaaattttg 60
 gcaatacact caagttatgg tataaaaata acattttgtt ttctctcttt ttctcattt 120
 tanacctaan anttttttgt tataaaacac cccagttaag aaatattgaa acataagana 180
 cttgaccatc aaggagagaaa agaancaag agtgaaaaat gctatgaaag taactccaaa 240
 cctgggcggg gcgggaggta tgangaataa ggagaaaagg aggcattntt gnaaaggcca 300
 ggggcctgtc ntctcancag ctccgaaact tgtcntgttt gaaagtgcaa atgtctatgg 360
 atttgacca tcttgagggt gtgatctttt aaaaagctcc tgaatganga aatccattcc 420
 ttcnnatgca aaataactgg ctttctggct ggaagtttgt ttggtctggg gtnttctccc 480
 catctnctcc tctcccaccc caccnttcc caaaaaaagt ncaaanggtt cnttcccnc 540
 tttccct 547

<210> 9597

<211> 571

<212> DNA

<213> Homo sapiens

<400> 9597

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aaaacatact agtttttatt gcatttttagg gattatagat tattgaaaat tatttaggac   60
acggaaaata tctaaaacat gaaacctttc ttaacaaaag catcatagtc tattttgggtg  120
tgactgttca ttacctacag accccaaata gttcttcctc ttttgaaggt tacacttgta  180
aatctacact cttgggttcaa tttatcactg tccaaataag gtgganaagc tgttcaaact  240
gatccacaga atgcagtatg cctgggaanag gcaaaacaag tattttcaag acataacagg  300
ccattacatc ttaatatgct gccccaaatt caaatatatt gttgacaata acaaatacag  360
atgaagacat tttgtgtnaa gctcaaacct ttagcatcta acaagtgcac tctagttcca  420
gcacttatga aaanatnact cctccattaa caaatacaca tgagttantg cccncccccc  480
cgcttcataa aancctctctg gaactgttat taccttatgc caatcttgga aaaactgctc  540
cncntctcat tantccacca nctccagctc c                                     571

```

<210> 9598

<211> 518

<212> DNA

<213> Homo sapiens

<400> 9598

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gaaatggggt ctgttgccca ngctggaatg caatgggtgca atctcagctc actgcaacct   60
ccgcctcctg ggttcaagtg antatcctgc ctcagcctcc cgaatagctg ggattacagg  120
cgccagccac catgcccggg taattttcat gttttcagtg gaaanagggt ttcaccatgt  180
tggtcaggat ggtccccaac tcctgacctc aggtgatcca cccgcctcgg cctcccaaan  240
tgctgggatt atangtgtna nccacctgtg ctggcctatt gataattttt aataagggtt  300
cacccaaagg gtggtcanaa aattanaaac cccctttctc tgggctgaac ctggaaaatg  360
ggccataact gccaccatgt natatcctag caaccctgaa tcccttccta atttancaac  420
acttcanctc ctaactgcat aactcttaat aattnaaaca gttgggttgt gccanctccc  480
nctctggtgg tgananggct gaaatctaata gaactgna                                     518

```

<210> 9599

<211> 567

<212> DNA

<213> Homo sapiens

<400> 9599

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caaaaactgt gggcaatcca anaaggntgg ttattttcct gctttctgcc aacccaaagc 120
aaactgctct gccatgtctg tttgtatttc ctgaatcctg agccctcaaa acactgcttt 180
atgaagtcaa caatgccaaa actgaaattt gcatttctat tctaanatat agctgacaaa 240
atgtcctttt ctctgcac cctcnaaaa acacttaata acatctaagt ttattttcta 300
aggatcaana aaacaaagtt ttctcatgaa ttgctgaatg atantttttc ttgccaaggg 360
ctaaaaattc aggatacccc cnaatcaa atttcctaaaa caaaatatat tacaggtgat 420
ttgctgcaat catgaaacac anccttcga aanttcatat tccatcta atngttcgaaa 480
catctaaaat gaatccattt cnttcaaaa agttgggtgt gcaatccctt ccaaaaaaac 540
caattnttaa aaaatcctta antttat 567
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<210> 9600

<211> 476

<212> DNA

<213> Homo sapiens

<400> 9600

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ggagcttgga agtcatttaa tctggaaaca ttattcaata tatatgctta aatcacaaac 60
aacagttcac aagtgtatat atattgtttc ctggataaca caccgaagag tcaaaagtga 120
taagaagcac atttagagca ataccctag aattaaatt aattctagaa caatgccaaa 180
ganccaaaat tatattactg tgcttaacaa tgcaaaaagt gtaggttttc tccattcagt 240
tgggcattga ttatatatta cccatatagt atttcaatca gaatcaaat tticanatgc 300
attaccacta ataacgggaa aagtcttaa accttggttc cctccgntc taagttggta 360
caaatgttct ttcatgttgc tgaaaaata tgggaaattc ncccttctat gccangntac 420
```

tgcaattact gctgatggct tatctgatcc tccnccaagg ntgttaataa tganna 476

<210> 9601

<211> 584

<212> DNA

<213> Homo sapiens

<400> 9601

ccagtttcaa agaaatttaa ttattattta cacagttaag gaacaggtga tacattttca 60
 ttgttagaa actgatcttt ctgtaataaa atanatttc aattcagtgt atgtcattat 120
 tactgctaag gaaatcttag cccttgtctg ccttaaagga atctttattt aatttactgt 180
 aattattgct gtgtagtcac tacttttggt aatttctcaa atcacttaaa tgatgggtctt 240
 gttttccact tagtaggtat acanancctt gacgttccta ttatttccta tataaganaa 300
 atttaaaaca ttttttggtt tttctgtctt agggaataa aaaaacacta accacacatt 360
 tggttaaact gcttaggaga agacataata aagatcccca atctatactt aacagccata 420
 aacctgagtt acaggctcag ttactccaaa taaataattc ttataggtac ttaattaatt 480
 aggctgggt atctaaataa caaaataatn tccccaataa ataaaaagaa ggggccccat 540
 acctgtttg ccctttggtg acacctaagg acctgccatt cctc 584

<210> 9602

<211> 482

<212> DNA

<213> Homo sapiens

<400> 9602

gtggtgtctc tgccaggttt tggatcagg atgatgctgg cctcataaag tgagttanaa 60
 angaccctc tttttctatt gtttgaata ntttcagaan gaatggtacc agctcctctt 120
 tgtacctgtg gcanaatttg gctgtgaatc catctggtcc tgggcttttt ttggttggtg 180
 ggctattaat tactgcctca atttcagaaa aatatggaat gcttcacgaa tttgtgtgtc 240

atcctcgac aggggtcatg ctaatcttct ctataagggtt ccaatttttag tgtatgtgct 300
gctgaagtga gcacgggtct ataattttta aacgcggggc ttgtgctgca aggggtggtg 360
tcagggtcca ccaagcagtt tcatcanggc ttaaacttcc cnnccccnaa atnaaaaacc 420
aaaatnaaat gccctactta aaaatactta cttaattata ccttaaaaat taaacactta 480
nc 482

<210> 9603

<211> 594

<212> DNA

<213> Homo sapiens

<400> 9603

cttttttggt tcttgttttg aattttaaaa agcggtttca gctattggga acctgaggtt 60
gattancctt gangcttcgg anggtcttc ttgctgctgc agatttgga atcctgtaac 120
ttcgaccaac acctttaaat tcccccttc ctactacttc cacagtgact ctgaccttcc 180
cgtcgtaagt tctctcagcc gggctaaatt tggcagtttc tggttccatt tcaagcaatt 240
ctcgcacagg ggaacggggg acatttgcag aaaacttttc tattagtggc cgcatcatgg 300
gatantacac ctgccanact gtctccagt acatcccact atccatgtaa atggcaccag 360
caagcgactc aaaaatatcc cccatggcct ttggaacttc aatatcctct tctttctctt 420
catcctctc anctctcta agctcagaat ccattccttg catttcattc ttctcaagct 480
gaaatgcacn aaatctccat gacttggan aactcaggaa aaaaaacttt gaattattgt 540
tgtatcgact ttacnccacc nanccaaaan tgttttttta cagggncaaa cccg 594

<210> 9604

<211> 409

<212> DNA

<213> Homo sapiens

<400> 9604

aaacagggtc ttggcctgtc acccagaatg gagtgcggtg gcatgatcac gatcatggtt 60
 cactacagcc ttgatcttct gggctcagct atcctccac ctcagcctct caagtagctg 120
 ggactacggt gcatgccacc acaccttgct aatttctgta tttttgtag ggacagagtt 180
 tggccatggt acccaggctg gtctccaatg cctgggctca agcaatcctc caccttggcc 240
 tctcaaatg ctggaattac aggcatgagc cacagtgtct gactacaaat tgtaatactt 300
 taaaaattct ctcaatatta gagtaaagtc actcaatcat gattaataaa tgagtnaanc 360
 cacacctaaa caatgtatga tctnagaact cntttingtng ganaaaatc 409

<210> 9605

<211> 593

<212> DNA

<213> Homo sapiens

<400> 9605

aagactaact gctttatact agcatttaat gattcatatt tttatatacc atagctggta 60
 aatacaagct acgtacttta tttggtgagc tactaaacta taatctgttc caactctaga 120
 gggaaaactg gttatgttgg agttatagag aagtgggtgca aaggcaccat cctaaaggaa 180
 tttcaacatt ccctttataa tctatgactt ttgctttatc tatgatctac aacactaacc 240
 tagactatat aatgcccttg ggcctacata aaatctgcca ttcattttt tctaattata 300
 gtagttgcta tgctactact actaatatag taatttgata gcatctagca ccacagagtg 360
 tgactaatat tgactagatg ctagcataca cacaagtttc tccagttgca tttggggaaa 420
 aaaggcagga gtagatggat ataaaacaaa agatctgtta tttgttataa aaaaaacaca 480
 atcttttaca gtccancaat gactttatct tttntccaaa aattttacat tttcncccaa 540
 ntttattttt ntaactncct nccctgccct taaataatca ccccttctat tac 593

<210> 9606

<211> 422

<212> DNA

<213> Homo sapiens

<400> 9606

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cttttttttt aatttttttt ttttttgac ananttttac tcttgtcacc caggctggag   60
tgcaatggca cnatctcagc tcactgcaac ttccgcctcc tgggttcaag caaatctcct  120
gcctcagcct cccaagtggg tgggattaca ggcatgcacc accacactca gctaattttt  180
gtatttttta taaaaacggg gtttcaccac attggccagg ctggtctcaa actcctgacc  240
tcaggtgacg cgcccgcctt ggcctcccaa agtgcctggg ttacaggcgt gagccaccac  300
accagccaa catacanaat tctagcgcta ttcacttgcc ccaaatttgc aacttctaac  360
ttgctganan ttagacaana nataagtnat atgtgaatca ntgatatggg tgggtganata  420
aa                                                                    422

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<210> 9607

<211> 555

<212> DNA

<213> Homo sapiens

<400> 9607

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aaaaatacag tggcttttatt tccattgttt atagtcccca gtatcccatc tgataagaac   60
cttcaattct ataaacaaaa atatctcaag aaagtatgtt acacaatagt acatataagt  120
aatagtttgg cagaatttta aactctagta gttcataccc ccaaaaaaca aattttaaaa  180
ttcaaaaata acagttttat ttaacatatg ttacacctta acatttaaaa tatcatgctc  240
tagttaaata tttcatcaac aacactgtat acaataaaaa tattacataa aatatattta  300
agaaaatgtt ttggtctttg atctgaacaa taaataaaaa cacaggcctt ctacatagac  360
aggggaaaca gttactactc aataataatc ttggtataag cagcatgntg aaaatatggc  420
aataacaaat tcctggaatt ttaactgaca aaccatctat gccaaaantc tgtaactnca  480
cctttccacc cagnttcaaa atacatatgc ctnccegggc catntggaaa atccctaccn  540
caanatgggt gttac                                                                    555

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<210> 9608

<211> 526

<212> DNA

<213> Homo sapiens

<400> 9608

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gtttngatat gtatTTTTta tttccctgca gttttcactt atcaagaaca agtaacaggg 60
aangttgtct gaactagtgc ataaacaaac attctgaaac accactacac gtatctaatt 120
tacaagaacc gtataaaaaa agtcactaaa acactacact atgaagggtgt ccaacgctta 180
cagtcagact ttttccaacc cgttacttgc cttgtagcca caggaaaact ctccaaaatt 240
gaaaagacaa tcttgccaca accctccccc cgcccaacac ctgggatggc tcgatatcta 300
gacttccaat aattattgca atgatataat gcaatacata cctggtaaag tatcttttat 360
gtgatgtgtt acagttttaa agccagttaa aatatgcagc cttcagataa aatgtnatcc 420
tcgaaaaatt ttcatatttg cacagtttaa atgtinctana tgcataattt ttcenattcc 480
aatTTTTccg tgttattaat tanaaattgg ntccctnaat anaaat 526

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<210> 9609

<211> 576

<212> DNA

<213> Homo sapiens

<400> 9609

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gaaaacactt attttactgt cttcaacaac aacaacaaac agataggcag gggaagtcca 60
gaggactcag aattgaagca gctctataca ataataaggg tggtaaatg atgtgactgc 120
aaagaaaatg actaaaacaa aactttacaa acatcttcat gtttgtaatg tattaatgca 180
caaaatatca aaaatagaaa gtctgagttt cttccccgca ggtttatgat aaactatcaa 240
ccttctattt aatgcatttc cttttttttt atttatagag atggagtctc gctatgttgc 300
ccaggctggt cttgaactca tgagctcaag caatcctccc acctcggcct cccaaagtgc 360
tgggattacc ggtgtgagcc actgcacttg gccttaatgc atttactttt ataanccttc 420
tctgtttana antacacnct accaantaca tacatgctgg cattttacca tgaaaatttt 480

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antttncgtc tcaaactaat gactgccttt ttaccatac ttatacntn ttataccttc 540
ccantggtac atttaaacia nataatnttt taaatc 576

<210> 9610

<211> 382

<212> DNA

<213> Homo sapiens

<400> 9610

ganaagaagt tcccctttat tcaaatectt tccangtgac ccgggtgggn cataagccca 60
ttcactttcc ctgcaaacc ccacttcctg tgggtanggg aaccttcgcc ttggcccacc 120
canaaccgg ggcagtctgt tgangtctct atatattcag cagggacccc atcccttcct 180
gtccccaggc ctgtgtctcc tcaggactca naactgggtc tctggctcag gctccatgtc 240
cttccccatc cccanggtg ggggcttcag ggacgtcca tcaaccaca ggagcagctc 300
ccagaggaac ctaagaancc acatctgctt tgtggtgat ccancantaa atgtttgtgt 360
cnnantgtan caattcctaa ga 382

<210> 9611

<211> 527

<212> DNA

<213> Homo sapiens

<400> 9611

gttttngtca atttatttag aaaaaaatta acatgggcaa atgagatacc tcagtgttac 60
aacagantat agaatgtct agcaatagtc aaataacttg atctttaaat acaaataacc 120
acatgaacac ctaatatata ggtttcatct gaatacatat ttattagata aatattagag 180
gttgtcacat catctaacta catacagctt tgcaagacta gaaatcacia ttagtttttt 240
gaccagtta aagtatgaaa tgattgcatt gtacatacga tgtacaaaga cnatgatggt 300
ttctgtggga gttacttcag gctgcactgg tgggtgtgtt tatgtgtgta cgtgtgaatc 360

acctgtgatc atgatatcaa aaattataca aagtatgaat ttggttaciaa ttttctcctg 420
 aaacccccgt tcctttccat tttccntan cccctaaaa taccnagggtg gcaggacaat 480
 taccctgaaa ccaaatan ttnttggttn antaaaacca aaaaaa 527

<210> 9612

<211> 604

<212> DNA

<213> Homo sapiens

<400> 9612

gagttagata gcaaagaaat tttatittaa ccgagacttc ataaaactat cagctttttg 60
 tttacttgct aactccaaaa ttttaagtaa accaaatgca atgattctgc tgttactttt 120
 acattgcata caagtacatg cgtgcacaca tgcagacaca cacacagaca cacatgttta 180
 agcaacaaat tcaaagaagg gtgtcnacac aattaaaatc cataatgtta aacaataact 240
 gtgcttggtta gttatacaag gtaatttgca ttgatataa acttaactta cattagtact 300
 ttttagaaac taaaattatt ccaaacttat taaatgctta gaaaattcat ttctttccta 360
 aacagattag aaccataatt caatatgtta acctttatat agaattatat gtaactcaaa 420
 ttatattcaa ttaattcnaa tatataattt aaatacngaa aaaagaaaac tacctgatgt 480
 gttnnanga tgtttatttc cctccaaaaa agaaactccg ccagacaatg atttttatcc 540
 cccatttccc gcnccctat ccctnaaaa aaatttntnt ttggaaaca aaccctncan 600
 ttcn 604

<210> 9613

<211> 597

<212> DNA

<213> Homo sapiens

<400> 9613

gagagggaaa aataaacatg cacgattatt taattctttt ggaaaaactg catgtaagtg 60

aagttctctt tcacaanaca caagcatcgg taacttgaca aaaaatgtaa gcttcanatt 120
 tttatgancc tttacaaatt gctgccagac tcnagattta aaaaaagaag gaaaatccca 180
 tatctgaana taaatttgct aattctggat aaacgccatg tgtctcagta catttctggc 240
 acttacctac acatctgcaa gatgggaaat catattgagt cttgacaggt gtatccaata 300
 aattttttat aggagtatct agtaatttgg aaggtgactc tataaaatta ttgagaacag 360
 aagcagctgt tcttttgggt ggtgtctttt ctgaagaant tgtttgctgc tctaaagctg 420
 ggggtgtggct atcaagttct gcagcaatgg tttgtctant caaaactgtg actggcccga 480
 cattccactt ttacttgctc cgtgatttga aaaataaaaa cctatggtca atacnacttg 540
 gcttaactgc tccaanccgc cccnnggcc caanaaaccc ttgccgcat acccacn 597

<210> 9614

<211> 561

<212> DNA

<213> Homo sapiens

<400> 9614

gagatggagt ctcgctgtgt caccagacta nantgctgtg gcgcaatctc agctcactgc 60
 aacctccaac tccctggttc aagggtattct cctccctccg cctcccaagt agctgggatt 120
 acaggcatgc gccaccatgc ccggctaact tttgtatttt tagtaaaaat ggggtttcac 180
 tatgttggcc aggatggtct cgatctcctg acctcgtgat ccgccacct cggcctccca 240
 aagtgtggg attacaggca tganccaccg cgcctggcca atatacagt tttataagtc 300
 tacagtagta natantgatg tcctaggctt tcacattcac taaccactca ctgattcacc 360
 canatccaca gccactttcc atcctgcaag ctccattcat ggtaagtgcc ttatacangt 420
 gttnacagtg ttccattttt tccccctcct aataataata attattatta ttttgaaaat 480
 ngggtctcnc tcttttcccn anctggaatt caaaagatga tctcactcnc ancaaccttt 540
 gcccccnagt ttcaaacaat c 561

<210> 9615

<211> 350

<212> DNA

<213> Homo sapiens

<400> 9615

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ccaatctgta aaaaatattt tcattatggt tattataaaa atataaatgt ttccactaca 60
aatcatttta cattagtaag aggccatcta cattgtacaa cataaactga gtaatatttt 120
gaaaagacaa gtttaaagta aacacatatt gccaatcata tcacatttat acatggcttg 180
attgatattt agcacagcat aaactgagtg agttaccaga aataaataat atatgttaat 240
ccaatttaag ataccaaaca gatcatatgg tacataacat cctgtnagan ttgtggcttt 300
atgtttacng aaagtcnatg cagttccngt ncaaanaaaa gggcggtagc 350
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<210> 9616

<211> 551

<212> DNA

<213> Homo sapiens

<400> 9616

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ggaagtaaag gtctttcagt ttattgctta agaaacaaca gattaaagaa aacttttagt 60
tttagtctct gatgttacag attcagatga ttcttatagg ttatttaaag aattcatttt 120
atcattttat aagcacccta aatttataaa gctaaccaca aaagttgcct gtacattttt 180
tctataccta gtttcttgca aattctacaa tctgacttaa gggataatta acggggaata 240
cagtgtatta ctagacatga aagtagtcct atccttagaa agctgtagtt gaatatacca 300
aaataagtca gttgaanaaa tctgtgattc tagtagtaat accatatcac ttaggaccat 360
caaaaaaatg tgnnctttc tccaaacgac aactgatgcc tttctttatg taagcttttc 420
ccgtgttttg gnacatattc cattgcattt caataaaaat gtttatgcnt tatcnntaaa 480
taaaaaaatt ctatttaaac tatncncgtt cctaattggct ccnatatttt ccctggaaaa 540
tanggaattt c 551
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<210> 9617

<211> 600

<212> DNA

<213> Homo sapiens

<400> 9617

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agtaagtata tacattcctt tattagggtg gcccttgcac ttataaagaa accttcctca   60
aaaaggaaat gtncaaaatg atgaagatac catagtttat ttcaacatac taagccaaaa   120
aaataagaaa acaactaatt tatttgaaaa aaaaacaaat tctgtacatg caggcttggc   180
ttgattgacc ataatgtatt tcagcaaaaa aaatttagat acaccacaca taataaagct   240
ttctatgtac acagtaaata gtaaataact ttgctaaatg gccagacatt tgaaaaaatg   300
aaaacacagt tgtaaaacaa agtatgtaag aatatttgta ccttatttaa ctgtacaaaa   360
agcaatcatt ctctccagcc ttccatcttc acttacattt ttttaaacia gattaanccc   420
cnaattgaag ggattaaatc ctttctcctt aatgccncgg gaatatnaaa ttcnctttca   480
antctttaac tttttacaaa ggaaccaaac ncttaaaggg aaatngtggg aaacaaaaaa   540
tttcaatcct gtgccatccc ccaaatccgc nggggaaaaat tcccantccc taccattccc   600

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<210> 9618

<211> 374

<212> DNA

<213> Homo sapiens

<400> 9618

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ganatggaga tctcactctg tcatccaggc tggagggcag tggtgccacc aaagctcatt   60
gcagcctcaa actcacaggc tctccttcct cagcctcctg agtaggtggg actacatgcg   120
tgcaccacca caccagcta attttggtat tttttggtgg agatgggatc cagctaaatt   180
gcacaggctg gtcttgaact ccaggcctca agcgcttctc ctgccttggc ctcccaaagt   240
gctgggatga caggtgtgag ccaccgcacc cagccagagg gctccttcta aaatggttgt   300
catctgctcc cactcctgcc ctcccagang tgcctanaaa agtnaanaan naagctccac   360
tgaagaatgc ncca                                     374

```

<210> 9619

<211> 544

<212> DNA

<213> Homo sapiens

<400> 9619

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aaagaaaaat aatttttatt atactttaaa ttctgggata catgtgcaaa aacatgcang   60
tttgttacat angtatacat gtgccatggt ggtttgctgc acctgtcaac catctacatt  120
aggtatttct ctgaatgcta tccctccctt tgccccacc cagcaacagg ccctgggtgtg  180
tgatcttccc ctccctgtgt ccatgtgttc tcattgttca actcccactt ataagtgaga  240
acatgcagcg tttaggtttc tgttcctgtg ttagtttgct ganantgatg gtttccaact  300
tcatccatgt ccctgcaaag gacaanaact catccttttt tatggctgca taatattcca  360
tggtgtatat gtgccacatt ttctttatcc agtttatcat tgataaactg gttggnnttc  420
aattcttggt attgcaaata atgccgttat aaacatactt tncctgtttt cttaaaataa  480
aaataattaa aacccttngg gttataccca ttannggaan ggcgggntcn aaagggaatc  540
ccgg                                                    544
    
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<210> 9620

<211> 431

<212> DNA

<213> Homo sapiens

<400> 9620

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cnaaaatctg aattctttta attacctgtn tcagatgaat naaaaaaac tccggaaata   60
atgaatgctt tcttaacaca acagaaacnc ctacacncat gaacaggaat ggttcagggg  120
aacccggttt ggggtgtnaaa ctggggctgg gctccccang tggaacctgc tcttaaaaac  180
acaccanaaa gctgggaang ctctattggg ggccgcttgc acacgcaaca gtacagtttt  240
acttttttcc tggacagtgc agacagtgcc atcagctcta gccttgcagg agggcacagt  300
    
```

cattcttcan acttgcactc ctggctctgg tgctgcatcc tggaaaggac gcgctcgta 360
aacancangt ntgcgtgga ggacangacc tctgcaggc tggccttgcg gacagtgtct 420
cgganaccnc a 431

<210> 9621

<211> 498

<212> DNA

<213> Homo sapiens

<400> 9621

aatgacagtt aatggcaaaa gggaaatitt tagctataag gatctggaaa ggcctgtggg 60
aaataatgtg agcgaanaat aggacttgtc tctgttttca cttataattt tcaaaagtca 120
tgaagtacta ggcaaagttt ccaaaatgct tctacttaat ttaacctgat tctccccgcc 180
acaccagcaa aatgcttttt atgttggtac agtaagtttg caaggtaatg atgaatacct 240
gaattgcaga aattaggcct aaactctgat gacccttaat gtaaaccaca ttttaacgtg 300
ttgagggtca ttatttgtat ggcacaggta tctcnggaaa naagatggat atactacccc 360
tggaagcca ttcagtctct cccttacaaa tgcctcctat cacatgacag gcattttcaa 420
anccctgttt tnccttgct tcaaatnate atggtttata tttnccttt tgtgggcanc 480
ccnaatgtn tttttacc 498

<210> 9622

<211> 549

<212> DNA

<213> Homo sapiens

<400> 9622

gcatattcaa ctgaagaaat ttatttactt ttttctaggt acatagatga cataattata 60
gacaagtttt gatacatagg aaaacccttc cgtccacctc tctttatgct aatgaatca 120
tcacaataat ttttacaatt tttaaaacaa tacacagctt tcttgggctg aagcaattgc 180

aagaacatat tggtagctgt atattacagc tacttacaat gttttaaga acagcaatgg 240
 agaaaaataa gttattttaa tattgatttc atatacagaa agtgcaatgt tgtagttgt 300
 tatataactt gctcgacagt ttctttctc tatcaatttt aatcaagat aacttggact 360
 ccaactatta ttttttttc tgaaaataat acagtacaca catggcanca ntgacttggc 420
 aanttgacct tttttgctgc agttatgaaa gccaaacttn ctatttcngg aactgattnc 480
 cantaaatta ttatttccca tttccccct ncctgggggg ttcangaaaa aaaaaagggc 540
 cnctgaata 549

<210> 9623

<211> 598

<212> DNA

<213> Homo sapiens

<400> 9623

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 ggtganacac aagttatgaa gtaatganta cttctcctc gtggttttta ctttaaaagc 180
 acatgctaan anctggatgc agtggctcac gcctgtactc tcagcacttt gggaggccaa 240
 ggcgggcana tcacttgagg tcaggagttc cagaccagcc tggccaacat agtgaaaccc 300
 cgtctctacc aaaaatacaa aaattanccg tgtgtngtgg tgcgtgcctg taatcccanc 360
 cactcaggaa gctgaagcat gaaaacgctt aaaccaccca ggcanagtt gcantgatcc 420
 aaaatcgcag cnttggactc caccctggac aacanaacaa aactaccccn ccataaatat 480
 ttgttgggtg aaattaaaaa ttgaagggtg attgttaaaa atccnctngg ncccccccc 540
 cntnaaaaac cccccacnca aaaccccccc gaacttaanc ctccaacat ccggtgaa 598

<210> 9624

<211> 466

<212> DNA

<213> Homo sapiens

<400> 9624

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gagacagagt cttgctctgt tgcccaggct ggagtgcagt ggcatgatct tggctcactg 60
caacctctgc ctcttgagtt ccagcgatct cctgcctcag cctcccagat agctgggatt 120
acagggtgtgc accagcatgc ctggctaatt tttgtatatt tagtagagat ggagtttcac 180
catgttggcc aggctgttct caaactcctg atctcagggt atctgcccgt ctacgcctcc 240
caaagtgtct ggattacagg cgtaagccac tgcgcctggc ccaatgtgtg gttgttatta 300
gctatgccct ttaccgaact ccttttcttg acctcctata cctacacctg ttgtaaagaa 360
acaaatacaa aacaggattt cagcaaaaca ctaaaagaag agcgttctag ttttttaaaa 420
aatttaantt ncttgtnngc acataacaat gaactcntgn ttncnc 466
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<210> 9625

<211> 500

<212> DNA

<213> Homo sapiens

<400> 9625

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cataananta ctttacttgt ggatttcttg gntaaatgta ttaacatttg tttcttctca 60
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ttcttttctg aactggtgta agccaccagg ttctccgtgt actgcaagat cgactttaca 180
aacttttagt actgctgata ctcatgcgca ttcttccac aaacagcatg aatgttgacc 240
aactccagcg caatgagtaa cagtatcagg ctgagcacag gggacagtag tctgatacta 300
ctccacatac gcaggtantt ctgccgttg cganaccgca gcgtccttc caccactgc 360
ctgtgtctca gctctganc aacggtgacc tgggctggac acacggcggc actgttcgct 420
gatgcttcgg ancacaacca gcacttcag cacaatcctg ggggnaaaaa nanggtgnga 480
aaaagtnttc tgcaaaacnc 500
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<210> 9626

<211> 584

<212> DNA

<213> Homo sapiens

<400> 9626

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agtananaca gtgttttgcc atgttganca ggctgggtctc aaattcctag cctcaagtta   60
tccacccacc tcagcctccc aaactgctgg gattacaggc gtgagccacc atgccagacc  120
tgatattact attaaatagc tatgagctag gctttccgta aagtatcccc tggatggcaa  180
accagtaaga anagcttata aacttcactt cttctgggtt acaatctctt atctttctgg  240
aacggtaaag cacaatgggt gaaattagac cccttaaaaa aaaatccaat gctgtatatt  300
tgctttatca taacatgtat ccctacatgg cacttctcaa naatggcatg gcagggangg  360
atgtnataac ttaagcatgt tttctcatta tgcacttgta cactgtgcat tggtttatac  420
ttaatttggt acattttccc taaaataatt attctctgct ccttcctcac aacaatccca  480
attccccccc ncccccnct attatgaaga agcttaattg gacnaaaana attttngagg  540
aaggtatacc aggaagaaca atnttttgaa tggggatccc ttn                               584

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<210> 9627

<211> 573

<212> DNA

<213> Homo sapiens

<400> 9627

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aacacacacc cttcctttta tattttcagt atattaaaaa ggaacagtac aaatgctgtg   60
gtattaaaaa ggatccttat ttttcaacaa atgaactttt ataaacaatt ctgtaatgaa  120
atgaaaacag tatcttaata caagcttttg ttaaacaana ttttaaaatt ttaaaattan  180
aaaacgtaa nattaaactc tttcaaaggt tcaaacaaaa aaacaacctg tacaatctcc  240
attacatgtg tctttgtaca cagtctgggc actttgaaaa tgtaaagtt tttaacgttt  300
gactgacaga ancagcactt aaaggcttca tgaatctatt ttccaaaaaa gtatgctttc  360
agtaaaacat ttaccattt tatctaacta tgcactgaca tttttgttct ncctgaaaag  420
gggatttatg ctaacactgt atttttaatg taaaaatata cttttaaaaa tattttaact  480

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tcctgagtga cttatccncc aatgggattt aatgaacaat ttctaaattt aaaaagaaaa 540
atttntntta tccacnctt tttttccact agg 573

<210> 9628

<211> 351

<212> DNA

<213> Homo sapiens

<400> 9628

acactanaaa aatcaagttt tttattttaa aatattttca aaggctaagg ccatagcaaa 60
acaaccaag ggtggttgaa tcaaactcag ggaattagag gagcatcagc caatgcaagc 120
aggtctatat aaaatacaca tcatttataa atgcacacag cagaaagcac agtggcccca 180
gaggaccagg cagggggaca acagagagaa acagagcact atctggaggg acaggcacac 240
ccgcaacact caaagccctg ggccccaant gcacctcaa antcacctac gctgcancat 300
ggctcttgcc ctttctganc ctgggtntac ctnaaaacca atttaccan c 351

<210> 9629

<211> 581

<212> DNA

<213> Homo sapiens

<400> 9629

acaaatttaa attaaatttc ttttttagag atgggacctt gctatgttgc ctaggctggc 60
anatttgcac tcttgggcta agtgaccctc ctacttcagc cgccccagca gctgggatta 120
tagtagtgcg ccaccctgcc tggcttaatt tcagttttct taaaaaaaaa aaacaaaaaa 180
aactagcatg cctgtcattt tattttgcct actggaaacc accagttaaa acaagaanaa 240
aacaggaaac ctccagttaa nagggtttta naaaagtgtt tttcanaaaa aaaaattgta 300
cattcaaaan agtggttgtt tcctttaaat tgttactgat aacctacaat ctcactttag 360
caacatatct gtgtgtattt atgtacgtga atanacntgt gtatgtatgt atnatgttat 420

gcacattttc tcaatgatga aaaatttttg ttctctgaaa aaggacttta ctggcgaaaa 480
 tccaaancct tatgaacnaa aatgggttaa naantttaaa ttggcaaaat aacttgaaat 540
 aaacaaaatt tnggcnaaa naaaaaatg gcctttttaa a 581

<210> 9630

<211> 608

<212> DNA

<213> Homo sapiens

<400> 9630

gagtgtctga tttaatcggg cttgtttgtc tgagacagct gactttgttt tggctcctgt 60
 atgatcaatt tcctcttctg ggagtgtgtt cagcatgaca tttttgatgc ccttcttctt 120
 gatcaacctg cattttatcc atattatctt tgttttcatt tttaaataaa gtttctgtct 180
 ccattggagc atcactgtga tcgccttcca aattttgctt ctcaattact gatgcgctag 240
 ccacactgaa gattccatgg atgttaacac gaactttaac cttcactttg gaactatcac 300
 catcagactg tggaaaaaca ttctgaatag tgaagctccc aattcttgca tcaggataag 360
 gcacttcacg tnaattagta taaaatgctt ctagttcaaa tggttccttc ttgttgaaag 420
 taatgacttt tganaatggg gcaggatggg tcttacanaa aacttcacat tcccacttcc 480
 atcctcaaaa naagtctccc cttaatgtga ttgaataagg aacaangtct gttatggaaa 540
 atcccccccc ttaaactctg tganaaaacn cncctgttan gccatccctt gcaaaactcc 600
 tcacatnn 608

<210> 9631

<211> 552

<212> DNA

<213> Homo sapiens

<400> 9631

gggcggggac ggagtctcac tcttgtcgcc caggctggag tgcagtgggt cgatctcggc 60

tcactgcaat ctctgcctcc cagattcaag caattcgcct gcctcagcct cccaagtagt 120
 tggattacag gagtgcgcca ccatgcccgg ctaaattttg tgtttttagt agagacaggg 180
 tttcaccacg ttggccaggc tggctctgaa ctctgacct caggtgatcc gccacacctg 240
 gcctcccaaa gtgctgggat tacaggtgtg agccaccatg ccagccaat ttctttcttt 300
 taaagctcta ttaagtcatt agtataaagt taaaaaggca ctcaaaaagc aatggtatgt 360
 gcctgcttta tattgtatat taaaataagt gatagtagca tttcattatt actgtatccc 420
 tgtcagttat gatttctgta ttcattatgt acttttttac tgaaagattt taaaagttgg 480
 cacaattata aactgcacta gtgctttaat ataaaagaga gatgggtctg ccaccagtta 540
 agttcnnnnn nn 552

<210> 9632

<211> 590

<212> DNA

<213> Homo sapiens

<400> 9632

ganaaggnet cactctgtca ccaaactgga attgcagtgg gcgtgatctc cactcactgt 60
 aacctctgcc tcaattcaag cgaatcccct gcctcagcct gaataactgg gaatacaatg 120
 gggcgccngg ctaatttttg tnttttttagt aaaaaaaggg tctcaccgtg ttggncaagc 180
 tggctctnaa ctcttgccct caagtgatcc acccaccctg ctgagcctcc caaagtgtg 240
 ggattacagg cctganccac cgtgcccggc catgttgctt ttataattga natatttcat 300
 ttgttttggg ggtaggcaa atttaatttg ccattcctca aactcagtaa cttcaaatat 360
 aaacaatgcc taaaatgaat atggttcctc attatttcta tcaaactact acaaatactg 420
 aanaatcccc aaattatgtt ccncagaagc aaaaaaacan ttcaagggtt gaaaatctcc 480
 atattaataa ccccgggaaa ttccaatggc cttcntatgt ccagggttat gccatntgaa 540
 acccaattcc ctntnttttg tnccccacaa tttcttcant cctttttccc 590

<210> 9633

<211> 516

<212> DNA

<213> Homo sapiens

<400> 9633

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agatgaaaga gggtttattt attaatatat gatagccttg gctcaaaaaa gacaaatgag   60
ggctcaaaaa ggaattacag taactttaaa aaatatatta aacatatcca agatcctaaa  120
tatattattc tccccaaaag ctagctgctt ccaaacttga tttgatattt tgcattgttt  180
ccctacgttg cttggtaaata atatttgctt ctcttttctg caatcgacgt ctgacagctg  240
atTTTTgctg ttttTgtcaac Tgacgtttca ctttctgttt caccagttct ggaggaattg  300
ttgaacagct tacagcactg cctgaagaag tgatactcag agttcttggt ctatactgat  360
tcatagctcc cacattttct tcatctctga aaggcctgaa ttctctattt aatgacaaca  420
aggcaattag atgagggcat catcttcata ctcgtcagaa gccacagggg antcctcctg  480
aactctctga acatctgcct gttgtaattt nnnnnn                               516

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<210> 9634

<211> 572

<212> DNA

<213> Homo sapiens

<400> 9634

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gttttatcca aatttattct caggggaaaa agaaagtagt ggctctacgc aactttttca   60
ttcaccaacc acctttccat gcatcagaac ctatgctgtg attgtagct gaacttcaat  120
agtttccacc tacttaagag agatgcctca aacaaattaa ctttattttc agacaacagg  180
tccaagaaga cttcacagct caatcatgac gaacatgtgg ctgtttcctc acagccagga  240
accctcggta ttagaanaaa actccaaccc cccacaccat catctagcct cttttctcac  300
tgtgaagaac tgatgagaca gaattcctga gaagggaaca tttaggtnat ctgggataaa  360
agggcattga aaggactgga caaactaacc ctccccntgn aagggaaggga aaagaatntt  420
nccaaacaga ctancagaaa aacaagaacc ntcantttct tcaggataaa caaaaaggcc  480
ctctaaatgc tctgattaaa nggttgtcca tgcctacagt gggcgganga taattctaaa  540

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aaacanaant ttttnccnnc ccaatgctcc at

572

<210> 9635

<211> 465

<212> DNA

<213> Homo sapiens

<400> 9635

gaatacgcaa gtatttatta cgcccttgaa ccaatggctt tgacatgttg taaacaggaa	60
cactgaaaga cctcatcttg accangccat agaacaccag gtcatganga tcctcttttt	120
ttgaaaaccc aggccagaca tgcttgatcc ctgacacagg gangccctct ggteccctctg	180
ggatgaanca ttcatggaan gcccctcttt ctgggttttc cantctggtt agtgggcagt	240
tgttcaccca cagaacacag gggctctgtgc acacttgagc cttgggcctg aggactgacc	300
atgccagggg acttccattc caggagacc ccttcagggt aaggagaact gancatttgc	360
ttgcatctcg ctgtcanctg gaatgancgc actgggaagt ncaaaaaacc catngctggg	420
ttttgggcac tggctttntt attactnta gggcaaaact ggcnc	465

<210> 9636

<211> 594

<212> DNA

<213> Homo sapiens

<400> 9636

aaattttaca gagtttaatt gagcaaagaa tgattcanga atcagggaac cctcaaacca	60
aaataagctc agaaanaccc agtgccactg tgtggccaaa gacttacgga cagaaaangg	120
antgaggcac aaaaagcana agtgangcct gcaaacagca ggggtggctac agctcgtgtc	180
tggcttattg aaacagantt tgaagtgtg ctgcctgtga ctgattcaag antaagttac	240
agtgtccaca catccaatta gatgactgtt cactacgtat ggagaaacct ataggctaaa	300
cttacagtat gtaaggangc ggcttcaggc tacagctgaa ntaatgtgtc cttacagttg	360

gaaccaggag ttcattggaa ttcttcatca tccagtgggc tgtaaagtgt cccatgctga 420
 antantctgt ccttacagtg tnaaaccaag ggttcatggg aattctcnc atccagtaat 480
 cittaagtgt gcccctccta attattnttc ctaccgggtt aaccagggtt cttgggaatc 540
 ccccccccc cgcncggtta tntttcccc ctntttntt ccccggtccc tttt 594

<210> 9637

<211> 588

<212> DNA

<213> Homo sapiens

<400> 9637

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 agttatttct tgtcttctgg tagcttttga atttgtttgc tcttgcttct ctagtctttt 180
 taattgtgat gttagggtgt tgactttana tctttcctgc tttctcctgt gggcatttag 240
 tgctatacat ttctctccaa acattgcttt agctgtgtcc cacanattct ggtacattgt 300
 gtctttgttc tcattggttt caaaaaactt atttatttct gccttaattt cgttatttac 360
 ccagtaatca ttcangaaca aggttggtca gtttccatgt tanttggtcg gttttgaata 420
 atttncctaa tctgaattc taatttgatt gcactgtggt ctgaaaaant gttgtaattt 480
 ccgttctttg cattccggtg tgtattgttt acttccaatt aatttggtca atttnaaaan 540
 aatttcaann tgtgccgcc aaaaanttn tncggttaaa ttaaaatg 588

<210> 9638

<211> 547

<212> DNA

<213> Homo sapiens

<400> 9638

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ccaccctcca atcttacttc actttacaac caagtatcaa tagaggctgt tccttcatgc 120
gagctgtggg agtatataca tcattgaata acagacactc cagaaatcaa cagatgtaca 180
ttatttacat attactatat ttaccgcaaa tagaaatatt ttctaagaaa aaaagtcaat 240
ttgtggtttc tggctctacca cagacctaac ttctcagcaa agcatatcta tgtagatata 300
tgcgtttgta actttaaaaa tangcattgc ttctatgaa gcactaantg ctgctccatc 360
tataaatanc tcctattttc agtttgggtac cacattaaac tgccccaaaa tgttctgtga 420
ccccaanac acaaagttgc tgcttatctg ggtccagggt cagtacaatt aaactcaaatt 480
atnaaccagg ggggccanca aaanaggctg gaaaggntgt ggcatccccc ccnccccngg 540
gggnccc 547

<210> 9639

<211> 553

<212> DNA

<213> Homo sapiens

<400> 9639

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atgtatatac gggagctttc ttacatcctg catggatgcc tgaggttcca ccactaanga 120
gtcttgtccc taagtgaana antcattaaa gctgtttatg taaagcctgt gtcttggaga 180
cagggtgtta tctctttatc agtcacatgc attgggtatg aaatggccga ttggattggc 240
tggcgtgcct gtcactccac actgccctgg gaccanacag ctttgggtgac cgagctggag 300
aggggctcca canctggact gaccctgaga aagctccacc tcagancagc acangggagg 360
agatgaggcc ccnctggttt ccctggggcc aggcctcntg tctaattgca naaacagcct 420
gaggacaga nccatggaaa actnaagaaa aggcangctt gtccattcca acttccatct 480
ctgcctctga ancacatctn ttgaatcagg gngtgaacca aaaccnctgg aatttctccc 540
tgctctatnc ccn 553

<210> 9640

<211> 380

<212> DNA

<213> Homo sapiens

<400> 9640

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aactgggaaa gtataccaat ttcactttat tagcctaatt tangaataag atgangaaan   60
cgggggttgan gtcacgcatn aangaaaang gtaaaaactt gtgatggtta agatcccttc  120
agaactctgg tgcagtcccc aatcactgca gctttactgt cagtcagtgg agctgcaatc  180
cnaaagacgg aaaatcgact cctgttttcc atttctgtgt ccagtgactc ttcanttaca  240
gtgtgatgag gtctaccagg ttgcctttag gaggagtent gctgtcngga aagaaattta  300
ctaaggtgtc taanaactga nttctttgag cataggtgtn atccacatca gaaaancccn  360
cagctgttaa atctgaaccn                                     380
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<210> 9641

<211> 513

<212> DNA

<213> Homo sapiens

<400> 9641

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cagttttaac attttattgt aattttatat acaaagaatg cttaacatta acagagctta   60
gaacaacagc aacatttaca gaaaactgga ttacagatgt ttaacaacta atttgtttga  120
acccaaacat tgtttttaca atacctgtag tttaaaââââ caaaaaââââ aaaccaatcc  180
cccaaaccgc cccaactcct cccacaaaag aaacaatggt aggaatagac caaaaactca  240
aatatgggcc ttacagtaca taagaataaa aacagtaaac tataaacttc taagtgttaa  300
ctctatacta aaccactttg cattagaaaa attataââââ aggatggctt tagtccactt  360
tatnttttaa aataatcaat tttaatgctt antttcccca aaacaggagc ttaââââââ  420
atttgttact aggacatttt gtcgggatac antctagggg aaaggacata acaââââââ  480
naaacaanat aggagcgcac taatggââââ ccn                                     513
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<210> 9642

<211> 519

<212> DNA

<213> Homo sapiens

<400> 9642

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gagcaaggaa gaagaaaggt ttatttagcc aaagagaatc tgagaatctt gataactaaga   60
attgctaatt catataatgg cttagaatag ttttacttca tactgtgacg aataatggat   120
tagctacttt atccttatct aggacagatt ccaagcatag gcagctacag tctgaaaaga   180
attattataa gctagaatgt ttctaagaaa aanatttggt ctcaggaata cgaaaataga   240
tncaaggaaac tgaccagac atgacaataa gtctaacaaa gttaacacta gtaataatgt   300
gtcagataaa aggtagaact gagctaaaaa ctctnaacttt aaaaatgttc agcaaatcaa   360
taccngaag tttaaagantc ttgaatgttc tagttcattc ttctctccat tttaggtact   420
ctcttaatgg catttttatg gtnagttgaa ttacctcaga anctgncgtg nccctcctgg   480
atgcccccgga aaatccnaat ngggaangac ctctcccccc                          519

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<210> 9643

<211> 535

<212> DNA

<213> Homo sapiens

<400> 9643

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aggatgattc aactttatga tttttcaact ttttgatggt ataaaagcga tacataatca   60
gtacaaacca tatacatncc accatttttc agtacagtac tcattacatg tgtcaacact   120
ttattataag ataggtttta tgtagatga taacaccagc atcttgctca ataaattgaa   180
gccagctttt tcaacagaga acattattag aatgaaacta gatgcaagaa caggaaagta   240
aacacctgtg tcatgttcaa caagactgaa ctacggagca aagaatcaca cagtgttgca   300
agatcttgaa ctgactagat gataggatta ccaaaaccac acngctattg ctggaaaatt   360
atgtcatgca gaagaacaga ctggcacgan tacatatgtg ggtttgcctt acacaaatca   420
aacctttaag tgaaacaagt ctntccaacc atcttcccat aaaacctant ttctatggga   480

```

aaacaatcaa ttaagcctaa nccccncct tttanatttt tnttcnttta taaaa 535

<210> 9644

<211> 597

<212> DNA

<213> Homo sapiens

<400> 9644

attggttaaa ggnaatttat ttgaaatgt tgctttgggt gtttgctttc tggaaacata 60
 ttgggaacac ttgtttttca taagctgtcc tgacagtggg acaatcccat ccatcttcag 120
 gntttttaat aaggtcatta tgaaatctga atttctatta atactctggt gcattcat 180
 catctgcaaa agcaactggc acaaccactc ctgcccgggt cagctctcgg anaacatcta 240
 atattgagtc tagttctgtg cggaacttct ccagctcacg attctttaac tgtgccagtc 300
 tttccattt ttcaacttct ttgttttgct cagtttctac tacttggtgt gtttgctgta 360
 ttatctgttg aanttccgtg tctctttgtg catgtctcat ttccatctgc ttaattttct 420
 tttctaacc acnaaatttt ccaccccggn gtttnggttt ccttgggctc cccccaatcc 480
 tccaaaaaat ttggttaacc ttcggtaaaa aatcccccca aactccnaaa atncaaaaaa 540
 acctgnntac cccgcccccc attaaantna aattgggaaa tttttaaaaa ttncnccn 597

<210> 9645

<211> 557

<212> DNA

<213> Homo sapiens

<400> 9645

caaggccagt atgtttcttt ttttattatt ttgtgtttg acttaaattg ttgaaatgtt 60
 ttcatTTTTc atttataagc attacattaa ttccatgca aaaacccaan atcgcatatg 120
 tctgatttca attggccaaa atccaaccct tgagtttgga cattcaanac caaatgaac 180
 acgttacttg ccctttctat gantanacat catgggtgtc ctttgaaaaa tcagcaggcc 240

tcctgacctc ttaaaccacca gcttgccatg agtccacacc aaaacaggga gccaatacct 300
 tccagcacct aatcaggcaa gtnacttcac tcatgaaaaa caggacacct ctataccaag 360
 gctgccaccc acagatattt cctgggtgct gctctataac aatacctgct ttigaacaaa 420
 cntggtatct nctatttggg gattataatt tctcccgcca gttttincta aaactcncag 480
 gaaaaattaa aaatttggca aaaaanctta ccnctttgac ccccnaaaaa ataattccaa 540
 aaaccccccc nccccna 557

<210> 9646

<211> 459

<212> DNA

<213> Homo sapiens

<400> 9646

acaggctcca natgtgttta ttangctatt taaataaaac atgtgacat ttctgtnggt 60
 taaaggacaa agaaaaatta ccaacacttt gggcttttcc cgaattctct cccctttctc 120
 tggatcaact caccacactt cactctcaaa ngaaaagcac agggggaaag aaatgagtga 180
 gggggctcaa aaaaatctgt gtggctccta ccaccccaaa catattctgg ttccccgaaa 240
 ataaaaagca aggcttgctc tgatctttcc cagttctcan antccancag gccgctgtgc 300
 tggacacata catggatcca ccaacataca tcantccttc tgtgttctct cctgcatggt 360
 anaagctgga acctaanaac tatattcccc caaaattccc gccacccan gaattngctt 420
 taaattccct aatgaaaagg cctnctaaaa aaccnnaat 459

<210> 9647

<211> 508

<212> DNA

<213> Homo sapiens

<400> 9647

gccagtgcag aaacgtttta tanaaataaa aaggctctgca tanagccgan gctcggagcc 60

acccctctgc cgcacatcca gtacagagag gattctataa agttcacact ttttcattaa 120
 gtagtaatan aaatacgggtg aggccctgaa actggcctgg tgagcganga aaggccgctg 180
 ggcgcttcca ctctgcaggc cggggctgaa ataaccgag ttccgttctc acanaaaggt 240
 gcggctgcca cctcttgaca caaaagccgg atgggcangt ttctccatg gccaaagccgt 300
 atcagggtac aaccgcanca ntgcaagggg cticctcaag gacaaatggc taaaaatgtc 360
 ncggtgaaaa tgtcntcccc aaaaaattcg ttctccctaa acccgtgggg gcaacccanc 420
 cttcacgtn acactggcca tctgcaaatt ccaactgttc ttctcnaac ccttnattac 480
 ntcccttcc tcccttttgg tnccttng 508

<210> 9648

<211> 542

<212> DNA

<213> Homo sapiens

<400> 9648

ggcaaaaaga aacatctaata atgaggggg aaagggcaga aaggtgcaat ccaggcaggc 60
 aggttgaggg caggacatgc cgccttctag ggtctccana aaanctgtgt caacggaaga 120
 cgtgggcccgg ggaaggccca aggctgcanc acatctacac nangggtcag caaaacttcc 180
 ancggtttcc acactcgttg caaacaacaa aggtgggtcat gggctcatca aaactgcggg 240
 tctgcacctg tgtgtangtg canttctttt tctgcactt gccncangtg aacaagtctg 300
 tctgcgtnc gccagtgcgg gccatctggt gctctcgat ggctccttg gtcattgcct 360
 tacgatctc cttaactca tcaactggcca tctcctctga ngcatcaca ncaatctgct 420
 ggggttttat ggccncaca acacattccc ccccagntc aggttcctt ggcattccctc 480
 caggtttga aanacaaacc ctnnccgggt cctaaacntc ccttntttt tcccaactnc 540
 cc 542

<210> 9649

<211> 604

<212> DNA

<213> Homo sapiens

<400> 9649

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aactttatta ttattatact ttaaatttta gggtagatgt gcacaacgtg caggagtgat 60
tttattttta tatggaatcc aagtttcagt ttcatacat tcaggtcagt gtggctcagg 120
acaaagccag catgttttgc tggaggcaga nattatggta ctaagtgtaa gccccctggg 180
acttagccga cttctctggg anaaatgtgg gctttctcac gcaatgggtgc atgtcatgct 240
gcgtctaagg aactccattc acatcgaagt ctatgtgaat ggccttcttt agaggtatat 300
taggtacaac ctgagcaact gaatgtgaca gccctggaac tcaggcatta aangacattt 360
cgctcaatc tgaangaatg gggagatctc ctttcttcac cctcctagct aatattctgg 420
tgcacgttat atttatatat attataaac ctctatgtct aaggttctaa ngtcctaagg 480
gttctatgat cctacagttc tctgactcca anaacctaan aattntatcc ggttctataa 540
ttcnatggca ccaaaaaccc ccantaatg ctatcctgcc tgctatacct cccaggcntg 600
tncc 604
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<210> 9650

<211> 603

<212> DNA

<213> Homo sapiens

<400> 9650

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gccaaagagg aaaaaatact tcatttgcta gattacccaa atgtgtagct tcatttaatt 60
accaaggtaa gaatcatccc caaccacttt tcagctgaga acacttgcca nanaatgtct 120
ctggatggga atagatgtgg taccagctag gccactggac taccgagtt cagctgccag 180
gaaatcagag ccacctcaaa tattgggcat gctctgattc agcagtggca gtgccctata 240
actttcanat gattatctcc atgtgctatg ttaacaaaaa taggcaaatt atttacgaaa 300
ccattttttt ctgttaagca aaataaatat atacaattca agattctttt ctcttctaaa 360
aaggtncaga tagtgtgagc tgaacatcag tangaaaatt atttcagaat ctggatgttt 420
aataaataaa cattattgtt tatcatgttt tccaagttct aaaaaaacg gaacccccaa 480
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acatanaatt tgatnggggtt aaaaatgaat gggttaaaatt ctgggaaatt naatgtttga 540
aattgaaaaa aaaatcccca nccccaattg atnccatctt ggagggctna accnttttaa 600
ccc 603

<210> 9651

<211> 605

<212> DNA

<213> Homo sapiens

<400> 9651

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ccaatcctgt ttaaaacagc actcaggccg tttatgtagc tgatcttgga ttagcccttg 120
ttgcacaggg atgatttacc actggattcc ttggaatccg ctttcgacgg tctctgaatg 180
ctgcacctga ttgtagggct tctagaaaat tatccatcac accagtctca tcacctctt 240
tgtttatatc aatganttgt ttctttttct tctggcggtc taacttttct tgttcagctt 300
tctcttttgc aagttttgcc ctcttggtct tctcttccat ttctcttctc ttattgtttt 360
ctctcactgc ttccaaaaac aaagtccgga anttggtgan atcaccaaan aactcttcta 420
tgctcactgt ctttgaatca aaaatgaaan tattctccaa gatctcataa aacttcatca 480
tgttggtgtg catggtggaa aaattttcca tactgttctt cgggcatctt tgttaaactg 540
ntctcttttc ccnaacttat cgtnttgaat ttctgcctgg gggaaatcct ganttccttt 600
ccnaa 605

<210> 9652

<211> 497

<212> DNA

<213> Homo sapiens

<400> 9652

gagggtaaaa tcacacagcc agtgctttta attcaaaacg aaaaatatgt catccaggct 60

agantgctca cattcatctg acagcaactt ctctccctgc aaataaagga aagctgtgat 120
 gactttatct ccgaagcctg cctgggtgga acgggcttgg cacaaaanga nctgcanaat 180
 cctgctgctg attggcagat gcatttctga actcagcggg ggctggacac tgagcangac 240
 ctgtgtgata atactgccta agtgggcaca aagccagggg ctgtggcctg ccancatgca 300
 ggcacagctc ctccaccctc aggggagtct gagaccctt ttgtgtttcg atgactgtgg 360
 gatttttttt ttttttttga natggaatct cactctgttg cccangctgg anttnaattg 420
 ccactctcgc tcaactgcaa atctgcccc cagttccaat taatnccct naatcccccc 480
 ctnacnacta ggaatac 497

<210> 9653

<211> 538

<212> DNA

<213> Homo sapiens

<400> 9653

gagacagggt ctccctctgt tgcccagtta ggaatgcagt ggtgtaatca cagctcactg 60
 aagccttgaa ttcctgggcc tcaagcaatc ctcccacttt agcctcctga gtagctggga 120
 ctacaaccac gcaccaccat gcctgcctaa ttccacttt tatTTTTtga ganatggggt 180
 ctccctgtgt tgccctggct tgtctcaaac tcctaggctc aagaaatcct tccacctcan 240
 actcccaaag tgctggatta taggcgtgag ccaactgtacc cagccagttt cttaaattga 300
 tatataataa tatgtatTTT agaatgcatt tagattcttg ctattttgct gaaattgaaa 360
 tgctataaag aatgaaattc ctaaccatct ggaaaagaaa tattctatga aaagcatanc 420
 aatggccaat taaaatgggc caacttggtt atggaaattt nccatggcaa gggttnaaat 480
 tnttttttaa caaacnaact ttattnaccc ctgaaanttt aattggacgg ttaatcan 538

<210> 9654

<211> 563

<212> DNA

<213> Homo sapiens

<400> 9654

gcagaagaac agtttttaat ttttttaatg tatctattta atgggaataa gttgatcata	60
natttgtaaa ccaaaaangta attcctcaag tatttggaag taaggaaaag cctccctacc	120
accaaccttt tggatcatctt tctcattctc ttacaatcat cctaattccc tagtacaccc	180
ttaccatata tcaataaggg caccataata ttatgcaaag aacagatata tatgcctgat	240
ctcttattag acttgacca gagactgttg aaccactcca ggcatgaact ccaaagctga	300
ggcacactga ccaagcccct gggcatctac agaagcaaag gcgttctcgc tccagctggc	360
tgctccttct ggaagagccc tttaatctgg gttaatcggc catagancct ctctctcaat	420
ggaagaatgt ggtanctaag gtccaaaatg tttgtcctcc gcgctctctc tcttgcttcc	480
ataacttggt ttggttgggg agggaaaaaa ggnccccct ctccctccaa atcnttacnt	540
tttcccctta nnccanntgc ccc	563

<210> 9655

<211> 574

<212> DNA

<213> Homo sapiens

<400> 9655

gagacggant ctactctgt tgcccaggct ggantgcaat ggcgcatct cggctcactg	60
caagctccgc ctcccagggt cagccattc tctgcctca gcctcctgag tagctgggac	120
ttcaggcgcc cgccacnang cccggctaatt ttttgtntt tttagtggan acagggtttc	180
accgtgttag ccaggatggt ctgatctcc tgacctcatg atccacctgc ctgggcctcc	240
caaagtgtg ggattacagg cgtgcgccac cgtgcctggc ccaccatgaa ctacattttc	300
aatccagggt atatgtgggc tctaaaacca caaattagcc aaaataaaac agttcttcaa	360
tagcaactaa aaactatctt taaataagaa attataactt ttctctgatt tattgcaata	420
taaaaaatcc tctggaacta atttttacc tcncttaata tttctggtga aaatattttt	480
aactgttacc aattnattgn aantttttg aataattccc ttncgttaan ccccccaan	540
aatgccacc ttccccaaaa attccentac cccg	574

<210> 9656

<211> 474

<212> DNA

<213> Homo sapiens

<400> 9656

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gtttgtattg ttttctgcta gttattaaat tgcagtgaat gacatttggtg taaaatatct 60
atagtcccag cttgagctca ttcaatcaac agcaacaaca taagctaata tanaccgagt 120
tcttttgtgc caggtactat tcttatgctg aacttacctc atttcattcc atcccatcaa 180
cagccttgn aagtaagaaa aatgaaactt gctcagcaag aatgtnaaac caggctgtca 240
agctccaggg cccaagcatt taaccacat tccgtgctgc caacctantg tcnatttcat 300
ttccagcaca agtnatncaa tctgaaaanc cacttgcttg gaacaatgtt gctttccttc 360
ttcaacacna attaccccc aagaataatg acntttnacc ccatttctnt taaaaaggaa 420
acaggacaat tgggtgggtcc ncnctgtggg gganatcaat gctactttnt acct 474

```

<210> 9657

<211> 586

<212> DNA

<213> Homo sapiens

<400> 9657

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gaccaactaa atggcatagg taagcatggc tgtggccacc catacacata cacacacctc 60
atatttagag tgtgaatata tatcattgca tanattccac cacgtggaan anctctatgc 120
ctgtgggtgt atatacccta nagatcagaa tggatgggtt tccagaatta atganacttt 180
gaatgatgca gatgttggcc tttccccaaa ataaaagggtt tttaaattaa tagagcaaca 240
ggatgcaaat actgggcaaa ttataagaaa tcataaagtt gaatctcana aagcatatgt 300
tcagttttgt nactgaaggc tgttgaaaat ttctnctctc tctctttgaa naatgaaatg 360
caaatgcctt ttagcaatgg cagcattcaa atcccncaaa aaatcangca ggggcccctt 420

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aaggaatact ccattggcca aactgtaaaa cctgctgggg ttaattnaaa ttgaacaaat 480
nctcacaatt ctccccctct caaatttccg aaactggatt tggaaggtcc gatancncc 540
ctttccggaa tgcccgncc cnggggttta aagatttga cncn 586

<210> 9658

<211> 621

<212> DNA

<213> Homo sapiens

<400> 9658

cctactctgg agtcctatgc cccagtcgga gtatttgccg ttgttatgtc tgccaatcat 60
gtttgaaact attcctaacc ctaggagcat gggaagtgc tagtacaaca tgtatttcca 120
aactgaatt tgtccatctc anaacananc cccattagta ccctggaggg tccccaagct 180
gctggtccgg ggcgtggcag tcacagtga ggaggaggg acagactgga gcacagctgg 240
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aggtgccccg tcaactgtgc tcgganact tcttgccac agcacctgcc ctctgtcca 360
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cctgctctgc atctcangga cagatgaagt gggancgcag gaacccttaa aaaacgggcc 480
ccaagtaana atcaaantgc tttacnaaca aatctgggcc tttgttaaaa actttgggtt 540
gcangatntt ttaactacca aaaaactatt gctccccccc caaggngaac ccaaccctaa 600
actntcccc caaaaaaat n 621

<210> 9659

<211> 367

<212> DNA

<213> Homo sapiens

<400> 9659

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ctggtcntcc attctgggca cagtgtgaca ttacctgaa cagaaangaa aatggcncta 120
naaaatgang gaaatttggg tgcctaaaaa ttactacaaa cangcagggg cgcaatggct 180
cncgcatgtt atcccacact ttgggaagcn aagtgggtgc atcaccaagt caggagtttg 240
agatctgcct ggccaacatg gtgaaacccc ntctctacta aaaatacaaa acattanctg 300
ggtgtggtgg caggcacctg taatcccanc tactcnggag gctgangcan ganaattgct 360
tgaactc 367

<210> 9660

<211> 489

<212> DNA

<213> Homo sapiens

<400> 9660

aaagaagtta tagcacagtt tattaagcta gaaatgaatt ttaacagccc tgtctcagtc 60
tgaatgaggc aaatttaggc ccacatcatt aggtatttca caacttaaca cctaaaattt 120
aacataaatt tacaaaaata aggcttattt taaagtcac tggagaaact gttttacagg 180
tatcttaact ttatttagct ctctgtagaa ttaacatctt tgcaaatata ttattcaacc 240
aagcatttgc cataaagata agcatcaact ttccatttgg acaagtgata gtgttcaagc 300
tacttgactt gtgaaaaaca aaaaaccacc atgacttctc aacaaatata ttttaaaatg 360
aaatatgctc aggctgataa acaaacaaaa tattnaaatg ganactgaca ttgaactncn 420
tagtcccttg aaaaaccena aaaacantgc cctataaaat gatattttat nggctttaca 480
aaaacatac 489

<210> 9661

<211> 534

<212> DNA

<213> Homo sapiens

<400> 9661

gtttttaacc ttaacttttt ttataatata tacatacata aaaactgcac aaagtatgtg 60
 tcaacaaaat acagtcttta aaacttaaat atcatttaaa cagacttaat tgcatacatt 120
 ttatatacgc acaaagtcag gattttttaca tggcaggga atactgtgga atgatgangt 180
 ctgcaggaga cagatgctat caaatganga ctctgggggtg gtatttttcta aaaatggggt 240
 tctgaaataa atttttattg tatgtagctt attttacttc tnagaaggaa caaaagatac 300
 ntttgggcag ccnaagtatt tctacttcct gcttaaaaca tttcnggcga atgaaatgat 360
 tataataatt aggtaagcca ccctattaat nccncggtc tncagtttct tatcttttcta 420
 aatacctaaa aaattttattc nttcntttct cccctacccc cccctgcctt tctnaaatta 480
 tnttttgaca ttttataatn tttgnaaaat aaccaaaaat tntttttaaa aaaa 534

<210> 9662

<211> 481

<212> DNA

<213> Homo sapiens

<400> 9662

aagattttca aaatattttt atatagaaat tttttacaaa gatttttaca catagcaaat 60
 cattatgtca tactgtagaa agatgaagca aaggattaaa ctccaaggat aaagaaagt 120
 ctcatagcaa cgtattgcag tctccatgaa agtgcataa aacggttaag gcaaagtacc 180
 atcttggtac agacatgttg caaactgact tttaaaacaa ttttttaaaa tatatacaaa 240
 ctttttttct tctattcttc tcaaaggcat ttgaaaggga tacttttatg aatattcttg 300
 ctgtagaaca atgtanaaat aacttctggg tataaaacag taaaaataaa aatattctac 360
 ctgagtgtgt taaatcaagt gatttgtaaa acaaaacctc cacaantgtg ggctttctac 420
 atgttacttg ccaggctgaa aggnntaccc ccnctnttct tcaacncaa tccctantga 480
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<210> 9663

<211> 504

<212> DNA

<213> Homo sapiens

<400> 9663

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ggaaatgtgc ttttattttc aaactcaggt atgtgacact ctacagttca atgctagcac    60
acctgtgtga ggcttaacaa catgaggaac tgatagccag tgatacacia atccagcact   120
tcctctccat ttactctgtc aggctgtata tggggagcaa cacatatggc tttgtggcag   180
ccagaaagtg aaggtctttt taggaggtga catcaacaat gacacaaaca catcactctg   240
caactgaagg caggggaacca gactcctagg gctaagcaga gatgtcagac ttcagaggca   300
tttgggggac tcttcagatc cacatcctca ctgaaaatcc agggcctggt tctctccagt   360
tcactaccgc ttgggcagca gctcccactg cttcaggctg gtctttgctt tccagaaaag   420
atggactcat gagcactttt tcagcccctg tatatatggc tattcttatg ctcccttttg   480
gagatntntt tnnncnnaac nccc                                           504

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<210> 9664

<211> 594

<212> DNA

<213> Homo sapiens

<400> 9664

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agcattaata catttgtcat ttattaaata atggcaaacc atagcatcat aaagtattaa    60
gactgaaggg ctactaacct acctattcat tttaaagatg aggaaacaaa tgccagagac   120
agtaataact tgtcaggagt ttccagaatt caattctcct tttttagatt aataaattag   180
accagatttc ttcccctagg ttactgtctg aggagattaa ctaatatgcg atacatgatg   240
tcttgggttc tttcatgttt aattcagttt gttgtgatgt ctaaaaatgt atctctttta  300
aacaattgct gctgtgcaac agtgtgatgg caaggggaaca gaaaacaaca aaaaaacttg  360
attgaatact tcaatcaaag tgcttctttt ttatgtgagg ataatcata ctgaattaag   420
gggaaattta agaatatatt ttaagaaata acaatttcag gtaggcaatt gtgaggaaaa   480
taacaatcat acagccaagg ccacttaatc ctcccacacc cccagggtta aaaatcaagc   540
ccgccttacc aatntcccc ccgttntttt gccttattta cangaatgnt tncn          594

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<210> 9665

<211> 587

<212> DNA

<213> Homo sapiens

<400> 9665

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agtaattctt atggtattgc tgggtctctc aggaatatgt atcatttgat ttgagcatg   60
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ttttcaggag tagatgttac atggcaggta tcaaaatgtg atgatcaatt ctgtgttttc  180
tgttgattaa acctcctcat ttggttaa atagccagtgtg taccanaaag ttctacacag  240
gtcaaaatta tatcactttt agagcagcaa tacgtgatcc aaggttttct tgaaggtagt  300
gcaaaanatg cagttcataa tgttctcccg attcaggaac tcttatgctg tgtctctcct  360
gaggatagat ctgtaaatca tatggctttc cagccctcac taaaaaactc agtaatatac  420
tggtatgtgc aaaatggaca ttctcatcca ggaaaaccat gttaagaaac agtaacaat  480
ttggttcana agggaacttt tctgcttgca tggccncaaa tcctaattaa taaccctgtt  540
cattctggtc ngggtaaccc aaaaaaantt ccgnnttccc gtttccn                    587

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<210> 9666

<211> 492

<212> DNA

<213> Homo sapiens

<400> 9666

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gagatggagt cttgctgtgt caccacact ggagtgcagt ggcgtgatct ttgcttactg   60
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tacaggtgcc cgccaccaca ccagccaat ttttgtatct ttagtaaana cagcgttttg  180
ccatgttggc caggctggtc ttgaactcct gacctcaggt gatctgcca ccttgacctc  240
ccaaagtgtt gggattacan gccaccgtgt ccggccaact ttttccttct ttacacgttc  300

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tgcccacaaa aaaaantgta acatattgct gcactcanca caaaaattat gttacccttt 360
 ttnggtncctg cncacaaaac gtatggtgat gtatnccttg tcctaccctt attgtgaatn 420
 tgagtcccn gcctggtccc tgtccacaaa ggggcaatnt tatacatctc tgggcccttc 480
 anccactnga at 492

<210> 9667

<211> 501

<212> DNA

<213> Homo sapiens

<400> 9667

gganagacag gggctctatgt tacccaagct ggtctcaaac tcctgagctc aagcaatcct 60
 cccactttgg catcccaaag tgcananatt acaggcttgt gccaccatgc ccgacccaga 120
 tcttattcat tctatctaac tatatTTTTg taccattaa ccatctccac tcctcttgaa 180
 actacccttc ccagcctctg atatccatca ttttactcca tatctccatg agtccactgt 240
 ttttaattttt agtccttaca aataaatgag aacatgcaaa gtctgtcttt ctgtcctgac 300
 atatttcatt gaacataatg acctctantt ccatccatgt ttgcaaag anangatctc 360
 attcttcttt atggctgaat agtactccat tgtgtatatg taccanattt cctttattca 420
 ttaatctatt gaaaggaaac ttaaattcct nccaaatctt anctatcgtc nntatttctg 480
 cantaaacat gggantgcaa a 501

<210> 9668

<211> 435

<212> DNA

<213> Homo sapiens

<400> 9668

aattaatttg aggtangaca caaaatatac aatanaattt ttgtgaagc actgctgaaa 60
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aaagacaagt naaatgttag ccaaggnaat gcacaggagc gcagancagc cgcactccag 180
 cccctcttct ctcagtttcc ttaggatcct ctattacccg ctcccccca ttcctaggcc 240
 cagcctgtca ttcctctcta tggagttact gccagattgc cttgcctcac tgtaactgga 300
 acatcaattt tccccatgaa tctgtgagcc ctgcaaagtc aganactgtg ccttgctaac 360
 accctantcc tcaaaagcac acaacagagt ncttgacacc cacgaagctc tcangangca 420
 ttgctgttga ntatn 435

<210> 9669

<211> 344

<212> DNA

<213> Homo sapiens

<400> 9669

gacactgctc tancagggga aagtggctgc caccatcttg ttaccgccag gtgaatgcag 60
 gcatctgggt tttctactgg gtgtcaactg gccaaaggant gggggaaggg tatgtgcctc 120
 cttactgctg aatgggggtg anaatccana attcccacgt ggtctccact gaaactctgg 180
 gancggacaa acttccttac tgaccagtgg ggatnaaatt tctggctcct ggcttgggtct 240
 tctctgacac caccacagca agggganaan tctcacttga ctcanccctt gctgggtgng 300
 gtgaaggggg accacantgt ttctgtggt gttcanctgc anta 344

<210> 9670

<211> 359

<212> DNA

<213> Homo sapiens

<400> 9670

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 gctttcnttg ggangaaaaa canggggtcc tcatatctcc accaagtatg tnaccaacac 180

aaattcaatg tcnatcttgg cactggccca naaaaangaa ccactcaccc agggtcaccc 240
 ancaagcatg gccagggctg gtcacactgt ggcctgacag gggaccaca ctctgggctg 300
 ctgatatggg ggancatcaan gaacangtcn gcanaaatg atgctgtcan ganttgggg 359

<210> 9671

<211> 624

<212> DNA

<213> Homo sapiens

<400> 9671

cactaaaaga tacaaatatt cacccaagtt tattgattca aagacatgca tttttttcat 60
 cagcagtttt ataataatca caattcctaa accaagcact ttgtggaaat ttgctccttg 120
 ctatgtgttt tttccttaca aanactttcc accagtaaga ttgttacaat gtaaggtaag 180
 aaaacagtgt gaactatgtc acgaatagtt aatacagtat acagtattaa gatagttttt 240
 ctggtctcta aagaaatggg actttagaat tcagtgtgtc tcanaaataa ttctgaccat 300
 taagtaaaca tcaaaatttt aataaataac ataatgaaa aaacaaacac cttttaaaaa 360
 ttgcttatac ctaacaaaac aatttctttg atgaagggtc tggttggntt tatcttggca 420
 gtgttcattt ttatacaatt tttgaattgc atttactcca ttctgatgaa attcccctct 480
 ttggaatccc ngaanaaatg aaaccatac tgctaccata ttgtgncctc ccgaaatgct 540
 tcnatcccct tccgaaccna atgaacaccc ccgccttgna anacataaaa naacantttt 600
 tgtgccgtac cgaaatcctt aaaa 624

<210> 9672

<211> 607

<212> DNA

<213> Homo sapiens

<400> 9672

gaaattgcag aaataaattt tatttttaat tttcagaagt aaaaaaagtt ataatacttt 60

aactgttaac aagggnntag ctgatatcca gttaacctaa tactgcatta atgtttttat 120
tcttttcttg aaaatactca aatacaccta cattgtgctc ttttaaaaaa aaaataagga 180
tacttacatt taaaaagttt ttgaggaan aaaattgtac aacattcatg tttttcatga 240
cactgaatga tatatcaatt tatctcttag aanaaaaagt agcataatta aaatcactgg 300
ttccctaate ttcaactctc tctccacaaa taaaacctac ctcttttcac aataaaaaag 360
caaaaaataa tatacaatcn aaaggagcta aactgaaact ctttatcccc ttgttcaaaa 420
nataaattaa ttgttgggan atcaacataa caatccnccc tgaatttttt ttcttttacc 480
atttancctt ggtcaaaaaa naaataataa tctatanccc aaaatntttn aaactcctat 540
cccttttccc cttatctgta aaaaagaaaa tggttttntt ttttaanggaa cttttntttt 600
tttttnc 607

<210> 9673

<211> 468

<212> DNA

<213> Homo sapiens

<400> 9673

gctagtgcgg agttttattg gctacaaaat agatgcaaaa tgatgagaat ctgaaggntg 60
cagtaggaaa gtagancitt accctcataa actcgcactt tgattagaaa agtgcaatat 120
attaaganca ttatganaag tctggtgaga ctgttacaga aaaaaaaaaa taaaagtttc 180
tgantctgat aattccaagg gtatctttta naactcactc actggtgtct gtgcaaggac 240
tttccttggg ggaaaatana ctttacaaca ggcggaaact ttcatgtgtc tcatgcgtgc 300
ttttggattt cattcacttg acaanaaact aatcttccgt tgatggtctc ctgggttatg 360
gccttgatct ttgganttgc aaacacttct ntgctcaact ttgattcttc ccgtntccct 420
tcaactctct cctccanaaa ccgtcgggtac ttggttnattt ccncccca 468

<210> 9674

<211> 500

<212> DNA

<213> Homo sapiens

<400> 9674

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ccaattaatt cctgattaga taagtcacat cctcctccat tttgaataat attatttact 60
tggtcatctg ggaaacttaa tgttggnnta ttttggcaat tactgtggna catgtttaat 120
tctgtaactc cgggtgaact caactgtgct tattactctt cagttccaaa ttatcacaat 180
caaaatcgta agtgggtggg gggctctttg ancagtatct gtttggtttt ctcgtgcac 240
atttttcatt gatttcctta tgtcacggga cagatcttcc agttttctgt ttttgtttgg 300
gtcttttccc tgttcttttc accagccctc aggccaggca cagtggctca tgcctgtaat 360
cccaacactt tgggaggctg anacagcgga tcacttgtag ccaggaattc ganaacantc 420
tgggcaacat gacaaacca tctcttaatt gtccaaaaa attatccatg tntctntnc 480
cattttcngg aaatnccaac 500
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<210> 9675

<211> 552

<212> DNA

<213> Homo sapiens

<400> 9675

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gagaacgaat cttgctctgt cccaggctg ggantgcagt aacgcganct cggntcactg 60
caagctccgc ctcccggtt cagccattc tctgcccc gcctccanaa cagctgggan 120
tacatgtacc cgccaccag cccgntaat ttttgtatt tttagtaaaa acagggtttc 180
accatgttag ccangatggt ctgcatctc tgacctctg atccacctgc ctgacctgc 240
caaagtgtg gggattacag gcgtgagcca ccgcacctgg gccccatcct gatTTTTaag 300
gaaacttcaa cagagttct tccagtcct tttaatgat ggacactgtc aagaagtaaa 360
tttcacctaa taactggttt atccanaaag aaaactgact cctcattcaa atggcattat 420
attaaaccag aataatctcc ttacctgaa acaatggttt ttgttaattt taaaaaaaaa 480
aaaaaatccc cnaagtgtt ctgaatctc ccagggaatt tctntntn ncnTTTTnc 540
cttttaaatt aa 552
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<210> 9676

<211> 531

<212> DNA

<213> Homo sapiens

<400> 9676

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aaaaaataaa atgttcgcac aatggganaa aattgcttta agtggttacac ctlanccaac   60
agancccaaa ctccgtgttt ccgttctttc tctttcggtt tctgctgang gctgggtgaca  120
cactggcctc ttgtcagtgg ctgccggcag ggccaggaaac aaaatanaac tgcagcacag   180
ctcagtccaa aaagcgttgg caggccttct tccaccggca ggccgtgcac cactggtccc   240
gggtgctgat gccatacacc ttgcggcact tcttagcctc ccctcgggct ttcctggcac   300
cactctgggc ccgggggtgga gaggtgacca tcanatgaga tttcatnca ngtgctggct   360
gctggggctc gctgaactta ncgaccggct ccggaccgga aaaaaaaaaac angcggcgga   420
aggggcanca cccactgac actggtntnn attttttggt aaaaactggg atnttgaaag   480
aatgcaaaaa cctgttntcc ttattttccc gaattttccc naaagaancc c           531

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<210> 9677

<211> 621

<212> DNA

<213> Homo sapiens

<400> 9677

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gcaaaactgaa tcctgcttta attcaagctt gtggagaaca aagtcctaca gaaacattcc   60
acagaatttt ctggaaaaga nggatcacia caaccctgtt aaaaggagac tgagagtaat  120
tcatagctca ccaagttctc tccgtatcaa atttccagaa taccacaag atttcttcac   180
cagctcagtc ctgactcaac ctcttcaatc tttatttcat tagaagacia agggtcatat   240
tatttaaaat tattctagtc tcaagaaatt taaagacttg aagtagtaga gcattcaaaa   300
cttaataaac tttacaaga aagccagctg atcttaacia gttactctgc tagtaaattg   360

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gaaatagact gaatcatcct agacataatt tcattagggc tgcaaaccac ccagggggag 420
 agtancacaa ttataccatt ttgttatccn cattccccag aaatttgcta ccccaatnaa 480
 naaaactttg tngccntana cacttatittt tttaaataat cccccccaaa atttccctgt 540
 ttcccccttt gtttcccttt ccccttcnaa attnccccnt gaattctccc ggagaatgga 600
 aaanccnntt tttccctngg g 621

<210> 9678

<211> 604

<212> DNA

<213> Homo sapiens

<400> 9678

agactgagtt tcgctcttgt tgtccagtct gtagtgcaat ggcgcaatct tggctcaccg 60
 caacctccgc ctccagggtt caagcaattt tcctgcctct gcctcctgan tagctgggat 120
 tacaggcatg agccaccata cccagctaatt ttgttatittt tagtaaanat ggagtttctc 180
 catgttgttc aggctgggtct tgaactccca acctcagggtg atccacctgc ttcggcctcc 240
 caaanantg ggaatatagg cgtgagccac cagcctggc ccaaactgan tttttttaaa 300
 ggttttctgt gaatcataaa ttctactgaa gccctatggt gtataaatta ttttcaatct 360
 ctcttttctt catttatatt ttcatatagt ccctattcat aacacaatga tggctcaaac 420
 tatatataat gtgaattgan tttctaattt aataaaaaat ccaaattctt tttcttggaa 480
 agatatcata ctaggcacaa agaaccattt ctaagaaaag tggatanatc tccttanaat 540
 aaggaaacnt aattttaacc aaattcacc ctagctgaatc ccnaanaaga ntccttcccc 600
 aaat 604

<210> 9679

<211> 302

<212> DNA

<213> Homo sapiens

<400> 9679

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 caaaacctca gctacaaaac agatcagtgg gctgcttgcc cgtgtggggc atgggctggg 120
 ccccganctc tccctccagc acccantact tcttccacaa ggccctatgt nantcagtt 180
 taaaacccca gggccttggc aggggtcagg tgggcgggaa caaggggtgg accttgtanc 240
 actggagcta aancanccan ataaggtggg ctantictta anacctctgg anggtgtggc 300
 ta 302

<210> 9680

<211> 554

<212> DNA

<213> Homo sapiens

<400> 9680

caaacatcct gcaaccttta atatatatca tgttgtgtga gttttaacac atttgggctt 60
 gcatttggtc tacaatgtgt aatatgaaaa gtttatcagc acaactagac tgaattattc 120
 ctcacatdaa tccttgggat gtgttacagt ttgtatcctt ggtaaatagc ttcaacatgc 180
 acaaaatata caaagatggt tacacatttt gatgtctagt gagttgtgag acctaaatga 240
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 gaatgcttga acttgtgatg aagggtttgc tgtacttgta aggattctct caanaaatga 360
 aattctctga tgctgtgtag gagtgaattg tgactgaaaa ccttgccaca ttattatac 420
 ttgtatggtt ccctctgaat ataaattcct tgaatgaacc cccagggat taaactttga 480
 actgaaaaac ctggcnnatt aatttcnttt aaaaggnctc ccctaatntg gaaaaatnaa 540
 atttcnaaaa aggt 554

<210> 9681

<211> 401

<212> DNA

<213> Homo sapiens

<400> 9681

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cttccatgga agttttgtga gaactctcca ctaccattgc caagggtga gtcaggatca 60
tttttcagtg tatttattat atcagtagat acaaaaggaa tatcttgtga cttcggagaa 120
atattttcag cttcaacttt aggcacttca ctcagttctt ctttttcac tctctcttca 180
aggctataat cagagcttat tccaaatgtc aatgatgtta tggctgcctc aggtgtccca 240
gggcactcaa anacagaggt ttcttccatc agtttgggcg cagtgcactg ctctgactg 300
gaaancccan ggtgaaaggt ttcacttaaa natgaaanat tcaaaantgt tccncctaaa 360
tgtttcttgg gctggatanc tcctcaggaa aatttgcttc t 401

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<210> 9682

<211> 563

<212> DNA

<213> Homo sapiens

<400> 9682

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gtcatttcac cttttaagg aaaataaatc aagtangtag gtaaaaatta ctgaactaaa 60
gagatactaa agatcagaag actggccaat tgagaaaatc aagtttcatg attaagagtg 120
actcaggaag gatgtcttag ttatgagggg ggcgggtggaa gacagtttat atctttgggt 180
atttatggca ggtcagaatt aaagatttaa ctttttccct tactctttac ataaaaagct 240
ggtttatctg aaaaaagtat caatctanac ttggcaataa agtggcactt aggcactata 300
ttattgatat ctacaatgac ctcttgatg cacaaaaaac cctgaagggc ttttttgatc 360
agcaaaacaa aaacagaaaa gcnaaaaaca gitaattttt gtttttgtca attttactca 420
ccanaccctt tgataccaac aatgctggaa aacatttggc aaaaacaggg ccncaatgcc 480
aantnccttg gaaaggtaaa ctctataat cttnccggat nggcaantt ntgggggttt 540
ttgggtattc ctttgaaaat ttt 563

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<210> 9683

<211> 479

<212> DNA

<213> Homo sapiens

<400> 9683

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acttccacca aaggcatgtg gcatatttac caatgtcatg tattctgaac aaaggcaaaa 60
aatacaaatt cctaccatta aactggcttg gttgttgttt gggttggaat aactgtgggg 120
gcttggggaa aggtgtcgtt tctttctant antctcatgt cgctttangt cagctgggct 180
ggcttacacn cgctgtgcgg tcttcatgga natgggaact ctgtgtgtca gcacaggaaa 240
gtggtctccc ancgttcaac ctgaaacacc caantcctgt aggtgcttgc cgtctctgaa 300
accccgangaa catcantgca agaangaaaa aactgctggc aaaaatgact cccaaggctg 360
ttctccnctc tgggtgggaca acctgggtgc tggccccaan gggtcctcc aaaaaaatnt 420
ttttacctg ncaggtgtta ntngcacctg caaaaccaag ttctnccgtn aaaaaagaa 479
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<210> 9684

<211> 613

<212> DNA

<213> Homo sapiens

<400> 9684

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gataatttag aaatttatta caaaactttt aataaaaaat acaatgatat tacaatttg 60
gttttccaaa gctttcaaatt ttttcttaac attatctttc gttttaagaa cacttttgaa 120
gtcggcagtt atttaaaatc cttactagaa aaaaacaaaa gcccaaggat ttgcatitta 180
gtcatcatct aggtatacag cgtgttttcc gaaagcatcc tttaagagtt tggagatttg 240
atgaaattgc tcatgtaata agcagttagt gaatactatt gaatcctaaa ccagataag 300
tcntcttggg ctggctgtgt ttttcatgtg aagaaactca tttatagcac aggcacccca 360
ggccaatana gatgattaca gatctctggg ttccagaaat tcctgacccc ttattccanc 420
taccaaaata ctttaattgct aaaggaatta cncccaccag gcacaaaacg gttinctgaat 480
ntnacaaaaa aaggtgcccn aaaaatcttt taaaactcnt ggttacacat actttatctt 540
taaaagggtt tgaaattttg gggaactaaa aatcngtaa aaanggtttn ggtggnnttt 600
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ttnaggaaaa naa

613

<210> 9685

<211> 577

<212> DNA

<213> Homo sapiens

<400> 9685

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agtgaaaaca aatttaatat catcttggtt gaacaaagct ttcagaataa gtgagcaatt 60
aaattcctta agtanggaca gaacaccaac aggnctctana ctccggaaga attgtaagcc 120
gacaaatggg cattgttttg cttaacagtt ttagcttcaa tgtaaataa tattattact 180
tagaatatta gcatctgaac tatataatga ctattttatc attttacttg aattaaaacc 240
agaatttctg gaacttccaa atagtcttta aagtttttca atataaacat aaactaacc 300
ctattcctct ctacatatca aatgtgaaat aactgtcaca atatatcagc attttcacag 360
aaagatgttt aaggcttctg gcacataaaa tgtgtaattt ctgtgtgaca atgtcataat 420
tatatacaga aaatatttaa aattctggtg gaatttaagt tctnaagatt aaaaaaacca 480
gaattcccng ttataaaaat attaaatcta tgaaccccc tnaaantgaa agnaattgtt 540
ttccttaana aaccagggg ggttttcccc ccantnt 577

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<210> 9686

<211> 581

<212> DNA

<213> Homo sapiens

<400> 9686

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actttgaaat acatttttaa tttttgaaaa atcaatatgt natctacaaa atattttgtt 60
acatgattaa gggtaacct gtcttatatt tgcattgaca naatacaaaa ctgtatttta 120
agtaagacat tataatagtc attgttaagg aagtccttct aactgacttt ataagaaaag 180
ggngtgtatc acaagcatag ctctggaatg aagggaacta acatcctana actgtcta 240

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atatacatca ggttgtaaaa ttccagcctt tatttatgtg ctggaaagta tcttttttac 300
 atatcttttt ttagtgata aactcttggtg attccacag aaaaaggaaa tgttcttaaa 360
 ttcagatctg cacaaatcat ctacccatga aattcattta cacagttaat atgatacctgt 420
 aactggaaag gtgaccanac tantcacaaa ctgggtccact ccttgggaaa tttgcccctt 480
 tgaaccccaa attgtccaac tccccattgg atttttttan cccaattaaa ncctaaaaag 540
 gaaattttcc ccccnntcc tttctcccn gttcccnccc c 581

<210> 9687

<211> 409

<212> DNA

<213> Homo sapiens

<400> 9687

cagcactccc agttgggtgt tttattattt atttacttga caggtaacat cgatttggtc 60
 ctacaagaca ccatgctata ggcttagcta ctgctgttg cacaagagaa ctttctgaa 120
 ctctcaggaa gcccttgcag ggcctatcga ggacagctca gtcactgaag ggaaaaattc 180
 cataccaaag aanagagaaa aattccatac caaagaacag acttccccca ggggaacctc 240
 cgtcctacag cccttcaggg ccatcacact cacacacntc agccatcntc aaaatattgg 300
 ccatgctggg aaaaacagga ncctgaacta aaaggtgggtc ttcaaaccat ggcntccgat 360
 ttattttnt tncaataaaa tnanttaaaa angctctacat gaataaaaa 409

<210> 9688

<211> 523

<212> DNA

<213> Homo sapiens

<400> 9688

agaaaaatga aagctgattt ttattttatc atcaacagcc attctttaga catgaacatg 60
 catacgtaat attctacgca cacatcacag cttttaacgt tagttaataa aggttaaaca 120

cacaacatac atccttacaa aaaaagtcaa aatgcaaact taaaacttta aacaaaagta 180
 ttactaattt aaaaaaagtt tgtgttggt accattcgta caacacagtt aatttaaaca 240
 ttctcatttt ggttgcacat gaaaaaggcg gcagtagaaa ataaagtcac tgagggtttt 300
 taaatagcag aatangcagt cttgccatgc aggagaagca atattaaata ttagtttcaa 360
 aaaaaatcca catttaaaaa tatttagttc aagtcacaga attttctcag tanaaacccc 420
 aatgcaatgc ataattanct ggcttaaatg gcccgtttga aaaggatana tccctncaaa 480
 atgtacttta ctgatttngg ccnnaaaaaa aatcttnnaa cct 523

<210> 9689

<211> 505

<212> DNA

<213> Homo sapiens

<400> 9689

gacgcggggg agagatttaa ttacatagc agccacttgg ggtccagtca gagctggggc 60
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 cctcaccaac ccttgatgg gctccaagg ttgtgcanaa aatgctccag tcaaaaggat 180
 ananacattt gggaataagg ctgtcccaa gttgggggaa ntccacggcc tggantgggtg 240
 gcctacatgg tggcccangg gtctganaaa ccaatccatg tcctgggcga ntctcacct 300
 ggtgggccta aaagaaaccc tncgcggcg aaactttccc tagnaagaang gcneggtact 360
 ggtcaaatec tccttccac gggtnaagcc gcctccttcg cacaccaca actcccgga 420
 caccancctg ataaaacnct catcctggga caccaaaatc nccccccct naaatnttn 480
 aaggcccgnc caaaaccca tggtc 505

<210> 9690

<211> 624

<212> DNA

<213> Homo sapiens

<400> 9690

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gaatatattc ctccctttta tttatagaag agtatacaga aattcatttg gacagaagga 60
gcctctctat gtaacaggca cccttctgct actggtcaca atcaatcaat ggtccagacg 120
gcaattatga ttttccacat tcctcaaagc tgctctctcc tgaaatcact ttgcaaattt 180
tgttgaccaa tttgcaaaca aaaganaatg cagtggccta cccaacctan aaatctgttc 240
tgcctaattc ccttaaaaac accattgaga atgcaaaaata agtccctttt ttgttttttg 300
cagaagcact acaagaaagc gtgtctaaaa ccacagaact atgcacacac aaacacagac 360
acgcgtgctc gcacacacag agtcgggata aaagaatctt atctgataca tanttggggg 420
agcacgggaa aaagctggca agaaaaggat atggagagat ctgatcagct aaagatgttg 480
gaatgttaca ntatggcatg gaaattgggt cttgggctat acaaaaaagg ggggtgggcag 540
gcaaaaaaaaa taataantcc cggctnctaa aaaaaagttc agtggccctc ctnatttaaa 600
nanattaaan gccntttcct ggat 624

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<210> 9691

<211> 376

<212> DNA

<213> Homo sapiens

<400> 9691

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aagtcagagt tgccctttat ttttagattc ttaaattattc tanaatgagg taaaacgagc 60
ctgccagtac aaagtgaaaa ttctacatgg tgcattcttg gcgcttcatt catgattatt 120
tcaatgaacc tcttcttggt cactcttaan atagatctga gtttttgact cgccagtgcaa 180
gggctttggc gacactcaat gacataatat tcttgaaaaa agcagtagca tttctgactt 240
ttcatattca gctcggagggt gtattgtctc gggctcctgt gcagtcnanc gccacggctg 300
ctcatcggtat gatccaggat ggggtccttg gcaattttcg ggttctcggg tccaagnatg 360
gccannccgt ntnttg 376

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<210> 9692

<211> 551

<212> DNA

<213> Homo sapiens

<400> 9692

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aatgggtcaa actagaacca ggatttaatg tgaaaaatta aactgattct ttattcacia 60
atttataata ccactctact gcagtctttg actccaagat attttaaate atatttggtc 120
gctgangaan anataagtta tagtatgcat ccttggtcca aaaatctggg cccttccatc 180
cgcaccagcc cttttccaaa ataacttgca ggtcttcagc accggtataa tgtggatcta 240
gaatcagaaa ctttatctgc cctgtaatct cattccatgc aactcctagt attgtgtggg 300
ccaaaactcc tccccgatac ataactggag ttccttccat ttggaaatga ttagccagtt 360
cccgtccttg agaggcaatt tctgaacctt ggctgacaaa caggattttt gacgttatac 420
cgatcaattg gtttagtncc agctgccctc aataaattca atccattggc gcgatccgac 480
aattnngttg gttgtccccg gctccaacaa aaccgccgna attcncngtn tntttggaaa 540
ggaaccnccg t 551

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<210> 9693

<211> 410

<212> DNA

<213> Homo sapiens

<400> 9693

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aaaagacaaa gacaaaanaa tatatttgga aaaaaggctn ggaacacttg cctctantgg 60
anaanggaac tgaacttgtn cacagccttc cgtattttatt aggcaaaaaa aataatgtga 120
aaggaaatgg aaaaaggggt cncgtctcng tccaaaatan gcttgcaana ctgcattctc 180
tggtatgtcc aatanataac ctcaaggagc ttggcgtcng gaancaattg ccctcagcaa 240
accttctggg gcaggcacag tcatganttt gccacattc tgtattcatg ataaacagtt 300
tgctgtttga tcgtatanac tcaactggaat gttgggtcaen tcccatgggc ctttggtctc 360
ctgtatatcc tcctttctgt ttatgtatta attgaaagan tgnnnngcca 410

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<210> 9694

<211> 553

<212> DNA

<213> Homo sapiens

<400> 9694

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ggtttcaact gccagcttta ccaatgcagc atttatttta aaattaaatt aaattaaaaa   60
aaaaaaaaatt gcatcaccag gtatTTTTct cnattaanga ngcacctgac caaggtgggc   120
cgtggccggg cggcaacaac atcacactgg gccatttaag gcagctcctt ctggcggggc   180
atctgtcttc cntcctttg tcaactgtccc canggtggcc accatggctg gggctgctgt   240
tactgccatn atgggcccta nggggaccnc cacggccagt gcaaaaaaaaa ntgctggggt   300
nggtatggcg gggccancct tgctcaatgc tgtggtgatg gccacantaa cctcgggggg   360
cacanccacg gctggggcaa caatcacttc ctttggcccn gggcaagcaa ggcttaacaa   420
ccngctgtca acacaccoga cctgccgaac gcctcctctn ttctggccac tnttggcaen   480
ggggggctcc ccgnccggga accctctcac ccatncattg gnaccttcc ttcttgttcc   540
caccctcctt tng                                                         553

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<210> 9695

<211> 424

<212> DNA

<213> Homo sapiens

<400> 9695

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gagatggagt cttgctctgt tgccangctg gagtacantg gcacaatctc agctcactgc   60
aacctccacc tcctgggttc aagcaatTTT tctgtcccag cctcctgant aactgggant   120
acgggtgcgt gccaccacat ccagctaatt tttgtatTTT tagtaaanat ggggtttcac   180
catgttggcc gggctgggtct cgatcttctg atgttgtgat ctaccgcct cagcctccca   240
aagtgtggg attacaggag tgagccaccg cgcccggctg gttatccac tctttaagtt   300
ctttttgaca gtcccaacat tgtcacctct cgacgtgtgt tttgcagttc gagcctgaan   360

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anatggattt atgtcataag anctgccttt gtaataaaan tggaataagg tnngctacca 420
aana 424

<210> 9696

<211> 576

<212> DNA

<213> Homo sapiens

<400> 9696

aaactttaaa aattatttta ttatctctgg gtgacatttt catttatagt ggcatttata 60
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catatcttta tccctagtgc atttacaaga gagcagcgta acggtaactt tganattttc 180
cttttgacag taatttccat tatcatttga atgggagaaa ttcttaggac atgatttgga 240
atcatttcta gaatataaat ttcatataat cttattttat aatgagacaa aactgtgtct 300
ttgtaacaat acgtgataat ttaagcctat gttttaatgg ttattgacaa agtttaatgg 360
catccaaaat actcttatgt ctatctgaat ttttttctg tactcttctt ttttcttaaa 420
agcatgatag acccctctgc aaatacagan cttttgttgt tgctttgctg tactttggta 480
ccttgctgtt tattccttaa tctaacacac cttagtttgg tagtataatct tacttaattg 540
ccactaaaaa aaatgctaac ctaggttaa ctggga 576

<210> 9697

<211> 581

<212> DNA

<213> Homo sapiens

<400> 9697

caaatgcagc atattttaat ttgtttcaaa taaagcaata tatgtatata tattttttca 60
gaaaaacacc agatgttaaa ttctacaaaa gcgcatttgt cctcagcaga tcatgtttgt 120
ctgattatta anaattcttt ttgttaacat taactctcta aagacaatca atggactgac 180

atcactgcta caacacaggt tgctaactga gcctctgac ttcagccaca tcttgatttt 240
 cctaataatg agtaaatact gcctggctaa aatgcagcaa agtcttgatg agagaaagca 300
 tcaacagatc aagcaaagcc atgaaaatta tgaagcaagc tagagctgat tattagaaat 360
 tagtaaaaat gattaagaag aggatgacac aacntacgg gatttgtata ttctgattga 420
 cactcttttg gcagcgaatt gggtcagcac ctccggcagg gaaccaaacc tgaatgaaaa 480
 ctgctctttt tctcctanc tcaggcnacc aacgtcacac cggggactga aaaaactgct 540
 gcatctgtgg aaacttctat tenccttggg gnaaaaatgc a 581

<210> 9698

<211> 570

<212> DNA

<213> Homo sapiens

<400> 9698

attgtctttt atgttaaact ttctacaaa ggatgtataa acgggtaagt ananaatctc 60
 tatctacaaa atgttttctc ttttaagtat tacattactt ggtgtacatt taatagactg 120
 acatatataa gcacataaaa atcattttac gtaatacgct gcgaaatacg ttgactcctc 180
 ctccgcctca cccctgaagt gcctcctcct ctatcctccc catcactttc atcatcttct 240
 gtctctgctg ctgtattatt tttagggtg cctcctccaa gcagtgaggt aattgctttg 300
 ttccgagcat ttgtgctagc tgaaacctcc ccttcttctt cttcttcac aggggccana 360
 tgttccatga naagtttgaa atctaaatac tgttttacta tactcccttt tcacctcttc 420
 tgtgattttg gaattancca tgcctccgc aaggaaatcc aatgttggtt ttggatnaaa 480
 atnaatcccg gttttccggt taaccttta tcatatactt ttggcaaacc ccaatggaaa 540
 attcttctga attttactat caaaaaatcc 570

<210> 9699

<211> 512

<212> DNA

<213> Homo sapiens

<400> 9699

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ggnttcaaat aacttattta tttctgcctt aatttcgtta tttacccagt agtcattcag 60
gagcaggttg ttcagtttcc atgtagttgt gcggttttga gtaagtttct taatcctgag 120
ttctaatttg attgcactgt ggtctgaaan actgtttgtga tttccgttct tttgcattcg 180
gtgtgtagtg ttttacttcc aattatgtgg tcaattttan aataagtgcg atgtgggtgct 240
gctaaaaatg tatattctgt tgatttgaag tggananittg tgtaaagtgc tgcttgggtcc 300
aaagctgant tcaagttctg anttctgtag gtctgcttgg tccaaaactg antttaagtc 360
ctgaatattc ttgttaattt tctgtctcat tgttctgtct aatattgaca gtggaatgac 420
aaatctccca ttattattgt gtganaatct aagtctcttg taggtcncta anaacttgcc 480
ttatnaatct ggggtgcncn gtatnggggtg ca 512

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<210> 9700

<211> 569

<212> DNA

<213> Homo sapiens

<400> 9700

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agctcatcat ctattattag tgtagcgta ttttatgtgt ggccgaanac acattcttct 60
tctaagtggg cccaggaaag tcaaaagttt ggacaccctt gctctaaggc aaggaanaaa 120
atgttttggt aaaccattct aatttgggca acaatattat tgactgtgat aaagataaca 180
acaatgatga attgatgaca cttttgtaaa ttgctttata gttcaaagan cattttcaca 240
tatatttggt taaatatctg tctttcctac ttctgaattt cttgagggtg tgtctgaaan 300
ttttaagtat gaattccagc attatctgag caaatccagg cctcagtttc ctttaggtat 360
aaaggtttgt gttttggata nttttaagtg tanacacagg gcacatgtat gcttttaatt 420
cagttcttca attaanatga tctttggagg aaaaaactct cctgatgaat tttaaaaaac 480
aaacacaggt ttanatacaa aaaaactctg gctggcatct ggcggganta ntaataatgg 540
gcctcttaca ttgttcanga aagngtgna 569

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<210> 9701

<211> 568

<212> DNA

<213> Homo sapiens

<400> 9701

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aaagaaactt ggattgtttt aattggttta aatgcagggt atatgtaaac aactccccag   60
aaatgagagg cacttctcgg aaatacaata acccatgtca ctagactagc aaaacactca   120
gtgcttttga ctgatgaat tgaatgagtt catgattcaa ctttctaatt ttgtctactt   180
gaaaaatagc aagattctta tctgcagcat ttaatgcatt aagatgtatt agataggcat   240
atcagatata ataaaattaa aattgtgctt atgttaattc tgtaatagac ctaactttaa   300
aacacctcat gttattcact aggagctatg atctagtcgt gacaatattg gttaaaatag   360
tccatctgag gcagaaagtn aacaagcaaa gtcacttttg caggcttttt aaactgtata   420
acacatgaaa ttatgactat tccccagatt atgcaaccag cttcaattta aaaagctggg   480
aacaatatt atgaagggtt actccccatt ccttcctttn ctttntntt tgaaacngaa   540
tttccccctg ttgccagnc gggattgc                                     568

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<210> 9702

<211> 562

<212> DNA

<213> Homo sapiens

<400> 9702

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cccanatagc catttgttca ttattaaca ccagaggcaa taacaacgct aaaaataaac   60
atgcatcaat tgtacaataa atacttaca aaacctctgt ctgtcacaat tagtgagtgc   120
aaacagaact tctaccaaac cttagtgcatt ttttattttc acaagtnaaa cagaaaagga   180
aaatagttaa tttaatgcta ttcagcacct ttagtaaagt caaaanantc aacatctcca   240
tatatcaaaa acatttgcatt ctgtatcacc aaacatgtaa agttaattat tttgttccat   300
ctttaacatg aattatttta tgtacattac tttttagttc aataaatttt aacaatattt   360

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aaaaattatc taaattcata aaagtatttc ataaatttca acatttaatt attatgtaca 420
 tataaggga gtccacgaaa aaagttaaaa naaaatgttt tcataaagtt caaagccaca 480
 ttaccaatth tagcaaaaaa tcccaccaa tcaaggggga aggnatccaa acnttccaaa 540
 atcttatctg cngccaaann tt 562

<210> 9703

<211> 570

<212> DNA

<213> Homo sapiens

<400> 9703

gttggtcatt tgaagcaatt tttctttttt attattatac tttaagtttt aggggtacatg 60
 tgcacagtgt gcaggttagt tacatatgta tacatgtgcc atgctgggtgc gctgcaccca 120
 ctaactcgtc atctancatt aggtatatct cccaatgcta tccctcccc tccccccacc 180
 ccacaacagt ccccanagtg tgatgttccc ctctctgtgt ccatgtgttc tcattgttca 240
 gtccccacct atgaatgana atatgcggtg tttggttttt tgttcttgcg atagtttact 300
 ganaatgatg atttccaatt tcatccatgt ccctacaaag gacatgaact catcgttttt 360
 tatggctgca tantattcca tgggtatat gtgccacatt ttcttaatcc aatctgtcat 420
 tgttggacat ttgggttggg tccaaatctt tgctattgtg aaaaatgccg caataaacat 480
 acacntncgt ttntctttat ancancatna attaaaatcc cttgggggtt ataccatta 540
 atgggaaagc tgggtcnaat ggtattccca 570

<210> 9704

<211> 543

<212> DNA

<213> Homo sapiens

<400> 9704

ggtgggtgata gttacacaac attatgaatg tgtttaattc cactgaactg tgttcttaaa 60

aatggttgag atggtaaaat ttatgttcta tgtattttac cacaataaaa tgaaattgat 120
 agggaaaaga tgaggcaagt acatttgtaa ggaaaacaga aagcttggac caattcttat 180
 atataaagca agtaatatat catgtataat cttaatctca gatggtaggt aaagaccact 240
 gtaaaactaa ccagtaccct tgagtgtcac aggcacattt catttcctaaa gcttatgaga 300
 ttgtaagtaa ccagaaccac ttgacaagat acctgaataa atgaagcgaa ggatgtctga 360
 taaacaagaa cagaagaggg cgtctttaac aatgactcgt aatggtgggt tgcctgaaga 420
 ttcntggcta gcacctggaa atgcnnatc tctgtttata nccaaaanat tctggggttt 480
 ttcccgaana aaccggaatc cngaatttct tggaaacccc cnttgaaaac cccttnaaac 540
 ctg 543

<210> 9705

<211> 574

<212> DNA

<213> Homo sapiens

<400> 9705

acaaacaaga ctagcttata gcaaattctc tatagctaag ggtcaattta aaatccttgg 60
 cttatatctc cccctcactc aatgactaca tgatgcaaac taattttatt aacaccttaa 120
 gcaaaacata ctggaatttc acaaaatgtc caagatttca atatttaagg aactgggggt 180
 aggaagcaaa agtggctttc aggtcttcca gtctttctct caagtaataa agctctgctg 240
 tgaatattca aagctattgg gaaattaccg gtagattttt ctgttttttt tttttcggtt 300
 ttccactatg ttgtttctct anatatgtaa gcttactcta ttaacaaaa tctcagcttg 360
 accattcttg ataagtacct aatcgacatg tnaacttttt tctgccttaa atatgtataa 420
 canggacana acccttaa atctgatcaatt attaatcct gatttacaan ttctatgggtg 480
 anctaacaaa acttatccat gcctttattg ccctttacta acccaatttt aaaaaggtn 540
 gaattaance cncccaacca attatcngt cagt 574

<210> 9706

<211> 563

<212> DNA

<213> Homo sapiens

<400> 9706

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gtttttaaac agctttactg aggtataatt gacatatcat aacattcacc tattttaagt 60
gtacagttta attattttta gtaaaatfff agacttgfff gaccatcatc acaatcttgt 120
tttggacat ttttataatt cctaanaaat cctcatgct catcaatacc accccttatt 180
cccactcccc agctccagac aaccctaata tgacttactg acactacaga tttgtctfff 240
ctggatatca taaaaataga gtcatacaac atgtggttfff ttgtatctgt cttctttcac 300
ttagattaat gtgcttttgt gggtcacctg tgtttagca cgtatcaata ttttattfff 360
ttaggtgcta gattctatta aattgtatgg atcactccca tttgtttatt ctttcatcag 420
ctgatanata tttgangtgt ttctacttta tggactatta tggataaagc tgctactaat 480
attcccattc cagtnttggt tgganatagg ttttttncce ttggaatnaa caccaggaat 540
gaaattgcc a ggttatacgg taa 563
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<210> 9707

<211> 522

<212> DNA

<213> Homo sapiens

<400> 9707

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caaatattta attggaagga actacatctg gaataagttt taaaggaatc catataaaaa 60
gaaaagcaaa tccattagaa attgatataa acagttgatt ttatctggaa ccaagaatgt 120
gaatgaattg gaacctanat gtcctaacct gtttctttgc ataaaagcca gttgaatttt 180
gaaatttata tggcaattat actttattac tttacataga gctttgtfff tagctaatat 240
tttagagaca gattacccaa aattacctaa tttggttccc acttcattcc ttctcaaaaa 300
ccaaacataa aacanaaggg ggccagctgt ggtggctcat gcctgtaatc ccaccatttt 360
gggaagccna agaagggtgg atcactaggt caggattttg anaccaccct gaccaacatg 420
gtgaaacccc gtctctacta aaaatacnaa aatccccag ntntgggtggc cctgcctgtt 480
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atccccaaat acttaggang ctnangcngg aaaatccctt ga

522

<210> 9708

<211> 512

<212> DNA

<213> Homo sapiens

<400> 9708

acaacaaaac	tttcatggt	tttattatac	attactgtta	ttgaaagcaa	actttataca	60
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atacagaaac	acacatacat	acatacacac	acggtatfff	acatcataat	tatacatatt	180
tataaataca	ttattttaat	tattttacaa	tataccaaaa	caaggaggca	attataaaag	240
caaataaaaa	atggatgaac	aattgaacta	aatagtcact	aagtttaaaa	tgctacaaaa	300
ctatfffftt	aatctagaaa	gtcatttctt	taaaatatca	aaactaagat	ttcaatacat	360
cactgttgct	ttcattttgg	taagttctaa	catgtttaaa	aataaatatt	ttgaccacaaa	420
acagataagc	naatcagaat	gatgactagc	ncaagctgaa	catgctgatg	tnaaattana	480
naatccctga	gtataaccaa	tatanattat	cn			512

<210> 9709

<211> 460

<212> DNA

<213> Homo sapiens

<400> 9709

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aatgaaaac	atgcaaagca	attcngtgtn	tacaacaatc	atffffcccc	ttcagttctg	120
ctgctttata	caacagtgtg	attgacaaaa	aattggatgg	catgtgcctg	ggtcagaaaa	180
tgcatctgt	ttacaaaata	acatcatgca	gcacagtttc	tactttgtct	gcaagtcaat	240
tcacaaaaac	tacttatfff	ctgtttttta	tttgggaggc	acatggaact	gaaaaattta	300

gctgcccatt tttattcaac taccacacca aaaaaaaaaa aaaaaatcac aaatgacagt 360
cccnacactc tgcaaatttt ggagggttga natagtaaac actatttgtc ntactccnca 420
gaatttacta tttnacagaa attaattctc nanggcctt 460

<210> 9710

<211> 435

<212> DNA

<213> Homo sapiens

<400> 9710

gaataatatt atgggggggg gggctaagac ntttaaatta atattgtttt cacatcaagg 60
aaccatcgtc agaacaaagt tcccttgtaa tggtcggccc tgtcaatgaa attttcatta 120
ggatgataat gtgcaaggag cacggagaga aaggacaagg cagtgaacac atgcattcca 180
gtggaggggag aacgaggctg atgtgcaaca caactgagga aaatttatag attaaactat 240
tcaaaaactgc taagcagcct cctgtaccac ataagtccag tanttctaag aaaatacaga 300
tatggtanaa aaagtnanaa aattttcacc acaaaaccaa tagttaacta ctaacnnaga 360
aagttatnca caaatatat ctctcaatac agtgatcaca cctcatctta ntcaaccgac 420
tcnatggccg gancn 435

<210> 9711

<211> 392

<212> DNA

<213> Homo sapiens

<400> 9711

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aaacataaaa gcatgcacat cgacgggatt cttataaaga aaaattaata actaagctgt 120
aaatcagtaa taatacaaac aaaagttaa atgatatgtg aaaagactta caggtaggta 180
tacggncttt aatttttagaa aataactcaa gtcagtatca atacaggta aggagaagct 240

tctaattttc cnaacatttt gatacaaaat ttttttcaac gactgtnttt tatanacctt 300
 ttgtganaaa attagtatag ttctatgaaa cctaacattc nantgatctt atgcnggtca 360
 ggntaccttg tttaaatgag ttagaaccnc at 392

<210> 9712

<211> 516

<212> DNA

<213> Homo sapiens

<400> 9712

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 caactttgtg aagatctaata tacaataata aataaaataa tttatacaag ggtttttttt 180
 tcttgacttt tctatagggg tcatattcat taaaaagccc aaaaggntac ctttgcctta 240
 acccttctgt agtacaggaa tgattcttan atttgtttcc ttttgttata aaancaaata 300
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 aantggatna caaactattc tctcggtaat ttatatanca aaacatctaa taaatgggtca 420
 tggatatcaag gnataggtaa cattacttcc ncncattta nttttacttc aaagtgctaa 480
 ctttggttaa ctaatganan tggttcctga nggggt 516

<210> 9713

<211> 466

<212> DNA

<213> Homo sapiens

<400> 9713

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 aatgccactt tttccctcat catggatgac tttgttaana tgaaccctt ttacaggaaa 180

ggggttacac aggctgctga taccagtcta nanagggcac ccaccagcca aggctgtgtt 240
 ctaacttagg tgtcatacca tcggccanaa aaaccatgtn tccataaagg ctgtgaanct 300
 aactanttta tctgtaattt ggtcctantt gcttccctta ttttatgtcg tttttttttt 360
 tccttaaata aatctgttca aataacctcc ttatnaatcc tcccaaataca atgttcttna 420
 nagaaaacan tcaanctaaa cancaatgat nacttttatg gttaaa 466

<210> 9714

<211> 570

<212> DNA

<213> Homo sapiens

<400> 9714

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 tttcaaaac gaatcaacaa caaaaaagta tccagtgttt cttttcttat gaagattatt 180
 aataaaacgc agtattggta agcacatttt aacagtatgc ttttcttttg tagggaaagg 240
 agatatggct atgtctaaca tcgtgggatc caatgtgttt gatatgttgt gccttggtat 300
 tccatggttt attaaaactg catttataaa tggatcagct cctgcagaag taaacagcag 360
 anggactaac ttacataacc atctctctca acatttcaat tatttttctt tttttagcag 420
 ttcacttcaa tggctggaaa ctaaacagaa agttgggaat agtctgccta ttatcatact 480
 tggggcttgc tacattatca gttctatatg aacttggaaat tattggaaat aataaaataa 540
 ngggnggttg anggtgaaaa tattaaaatt 570

<210> 9715

<211> 583

<212> DNA

<213> Homo sapiens

<400> 9715

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canaagcagg gctcagtcgt cagctgtctt ggcacatca aagctgccac agggtcctcg 120
cagcagctct gccagtagcg caagcagctg cccgtgctcc tcctgtacgc tggggggaag 180
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tgagatgggtg gcccggcgcc cgtcatcacg gatgtgcacg tccccgtcgg tcagcagcag 360
cacagctagc ggggtgcacct gaagaagagt cccggacgaa anacgctgcc attggacttg 420
actgccatga aatacgtcag ccacgcgctc cgtaaccgtg ttgtaancgg ttcgttgctc 480
ctgtccacca ggcccaagct cttcattttc ttgcaggcca aggttcncc ttattctcac 540
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<210> 9716

<211> 584

<212> DNA

<213> Homo sapiens

<400> 9716

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tacaattaaa ttaagtccat acttctatac tactttgggtc tcaacatttt taaaacatca 120
attaattttg aaaatttaca atttaacaac atgacccat caataacaag cacattttgt 180
agtgaattaa agacacattc aaccatgcaa tccagtgttc aataccttaa tgataaataa 240
caatgctgat tgacttttat ttgaaaaat cattgaaaac tggaataatc atctgagact 300
cacagtgatc acaaacatgc agaaaaaagc atacaattct attcttcctg aaggaatgtt 360
acaaaatgcc cactttttta tatagggtca atatgccaaa ttacttatat ttttcaatcc 420
atcatcttct aacatttggtc acttaaattt ttcttaaagt acaaatgttc ctgttaagtt 480
gtnacagaaa atgaaacccc actccttcng tctttaaaaa ctccgtccca gtccccccct 540
aatanccgcc tttaattaaa atatgactcc ccgtggaaaa atnn 584

<210> 9717

<211> 562

<212> DNA

<213> Homo sapiens

<400> 9717

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gagcacatac atttccgctt tattcaaata ttgcataaat acagagcagt tgggcacatc 60
cattctaagg nactgttctg gtttgaatgc aattccgcaa ganagaaaag agaagccatt 120
acattctgta tttttcatct ctacattcag actcctccta tattatatgt ttattgctac 180
tgggatatca atttgagccc canacttata gcagcatcat atgttgacct ggatgacaag 240
aattaaagat acatcctggg tctagcaatt ggtataattg gcacttaatt acaaactctc 300
ttgcattatt ctccacctgt ttcccaactc ttgtttaact aaaaatatta taaaatcttt 360
atgagcctga tccatgaatt atatttcttt actagcttcc actaagccta naacaggact 420
agttaggcac atagtaaata cccccaaag tatttatatc actctcgana acttcaatgg 480
aataaagact atacttttcc taattgtant tcnaggaaag gatgactgaa cntcttcctn 540
aanggaaaat ncctgaattt tt 562
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<210> 9718

<211> 575

<212> DNA

<213> Homo sapiens

<400> 9718

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ggtaaaaaca gaaaatttta atttttatat agttttatta acaagcacac agagaaaacgc 60
tgatatccct acatgttgaa agtgtcacga taatattctg aaaagtacaa aattcaaatg 120
tctaaatttt acatggtaat gcaaaagaaa aaattactaa taacaagtat attttattaa 180
aaacttcatt tatcatgaaa attagtgaga ttacaaagat taaactataa ctgaatttca 240
taccctaata ggtcaagtcc ctggtctagg agcattagag aggactctct gagcttctgc 300
agcaacttcc ttagctcttc cttagaaaat accaggtaca gtttgtggcg ctgagaggat 360
accatatctg ctaactgtag gcattcctga tactgaccag tactgtgcaa tatcgtatga 420
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agcagaaaac caacattggc ngacaaagct ttctcagtaa gaacatttga tgtgttcctt 480
cctgggtctcc tttggnatcc tctctaacat ccaccatccc cctcctca anaaacaaca 540
agaaattttt nattttcncc ctcccattcg cagtt 575

<210> 9719

<211> 540

<212> DNA

<213> Homo sapiens

<400> 9719

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tggangaagg gggcttattt ctgaatctcc aaatctanaa tggtaacctgc cacacaaata 120
tgtgctccat aaacaaatgc actttttctt ttctgcactc cctgggttgc aggctgcatg 180
cnaagcacgt cctcaanggc cagggatctg tctcaagcct tttgaaaac caccctttc 240
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aatnngcatc attattctac agcgtatgctc atgtataatt atgattatta tcctatatga 420
acnatccatt gctgctgtgt aattccaatg ggtaattact ggcctctgaa gattgaactg 480
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<210> 9720

<211> 567

<212> DNA

<213> Homo sapiens

<400> 9720

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caccttatag ctccgtttta ggaggggatt tgttaaaaac aaaaatgcat tataacttgg 120
tcaaattact ttcacattaa ggaaaaaac ttctaaaaag gaaaacaaga aaagcaactc 180

ttcagtttca cataattaaa agaacaggag aaagcacgca agctacatat agctaaattt 240
 acgaaaccaa ccaaagccag ggggatttct cttctgatta tgtgtcataa aaagggtccac 300
 tgtcttatat acacatgtat ataatgttac attccatcac tgtaaaaagt cccctttgcc 360
 ccctcccca aaaaagtttc agtctagtct ccaaacttgg aangcggcgc tcgctcctgc 420
 tgccggtgca attcgttctc ggtcancaac tggaagtctc cggcgcgcac cgggtcaactc 480
 caactccact cccgcaaaag nccgttttcc caccacaacng nttgtctcaa ccgaanengg 540
 tnttctctc cccctgcca aaaggnc 567

<210> 9721

<211> 578

<212> DNA

<213> Homo sapiens

<400> 9721

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 caaaacatgt tcatatatat ttgtgtgtgt gtatitttnc ccatttgttt tggcatttcc 180
 cttaaacagg atgttaaaag ataaagaaat agatttagtc tatttttctg ctanananag 240
 gggcctcaca cttcttggtg atttgcaa atgcccctctc tctttgtaag tataagaaat 300
 atcaacttct ttattttattg tggtaaatac acataacata aaagtgatga ttttaaccac 360
 atttaaagt gcagttctgt ggcattaagt acattcacac tgttgagcac ccataaccat 420
 catccatctc canaactttt taccttccca aactaaaact ccggaccac taaacactca 480
 ctctccatt gncnctccc cccagccctt gggaaccacc aatcctattt cctgggtctct 540
 gtgaaactga acngcnccaa aatccccat ataantta 578

<210> 9722

<211> 538

<212> DNA

<213> Homo sapiens

<400> 9722

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atttccacac aaacacccaaa cattgtagta aaactagtta acactttggc catgaaactc 120
aaagatactt gaaaaacctc tcgatagcac tttaggtcac ttaattctga caaatattaa 180
tatgtcatcc atgcttgccc agttataatt ttacaatata attgtatttt tcattgtact 240
tattattcat tatacttact atatatattt aaaacatctt tgctgaaatt ctcttatccc 300
aaaaataatt tttcagtaac tccaaaatac ccacatgtac ctcttagcag gctattccaa 360
tatcaaaatt ctttttcttc aagtaacaag ttctcaatcc acaccattcc tgatcacaga 420
tataactgat atgcagtttt ataaacagct ctttacncct ggtnccaatt ttagcngggc 480
aaccancctt cctgatatac ccaaatttnc ttggcacana atcntccata gctttggg 538
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<210> 9723

<211> 569

<212> DNA

<213> Homo sapiens

<400> 9723

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gcctgttgta naatattgtt ttttctggg cataaattgt tgaatgatgc aaaacaaatt 60
ttatgacaca aattagtatt gcttgacaca ataaaaaag gttaattatt taatgatata 120
tcttcattta ngttcccttg attggggaca tgggtaacta acttaaaca actaccttac 180
ttgacataaa acttataaca agggaaaaaa gttaacaact taaagagata ataaatcaa 240
agcctattat gttattaaaa agattcacga gttactacca ctactattac tagttaatat 300
ttattgaatt actctgtgct tggaactgtt ctatgcattt tacttgtgtt atctcatttg 360
atgctcacia caaccttggt aggtaggtat tattgttata atcatcatcc ccattttaaa 420
aggaagaaat tgangcccca agaaaatagg taccttgccc aaggtcccnc actgaaaatg 480
gtaggtttgg aattgaccna aacntctgac cagattttta nactaantcc ggaattttaa 540
ttggttngct cctatttaca atcctatac 569
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<210> 9724

<211> 566

<212> DNA

<213> Homo sapiens

<400> 9724

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aagccagtta taaaactata acttcacatc aaaattttaa aaagttaaaa aatgtgtttg   120
aatatgtaca tatcacacag aagtggttga atgttcttgc anattgtgtt gctggtcana   180
ntccagtcta ctttccactt ttaaaactgg aataggctga gtcttctgat cttgctgtan   240
attaagttct gatgcaggtg ggaaanatga tgangcagtt gttacagct gaatctctgt   300
gcatgcttct tcanattcag tttttatcct cacacattgg gagtcaactt ctaattctcg   360
ctttccagtt aaaccacagt ccatgttana attgctttct gtgttttgag tggcttccac   420
aacanggtgg tncgttttaa gccttatatg ccangctaaa ctgcaccgc cnaaactgtt   480
ttgaactgat gaatgacttt ctaggganga aattaaatat cattgtcccc aactgaaatc   540
ncacntaaca aatgcctccc ccnct                                           566
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<210> 9725

<211> 535

<212> DNA

<213> Homo sapiens

<400> 9725

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gctgcaagtg tttattctat ttagaagtct acaaatttga gcttttaaga aagattcaca   60
aaatattcat tcaaaaccac attttggct tatcaaattt caaatatatt ttactgtgct   120
gaacaatata ttctaagtct gtctaaaaca cagctaaatt attttcttt atttgittat   180
acacattcgg taatttctga aaagcaagat ttaaaaatat ttattaacaa actaccaat   240
tacaatgact gttctcccat acacgcaact attttctgta gctgtatctt cttacctcat   300
tccactttaa ctctgtatac cgtattgatt tgtgatgana tgatttatta tganaactct   360
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tagggagttc tcattctcca tttctcatca attcaaacag caacaccttt cacaanataa 420
cattaattcc cttggcangg caaaaaactt aagtttggtt aaaaagcact cnctgaaaaa 480
catttttaaa tttataggtc ctnttaaatn ttttcnnga aaacgnatga ctccc 535

<210> 9726

<211> 556

<212> DNA

<213> Homo sapiens

<400> 9726

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gtgctctgta gtgttgtna aatcggattt tgaaattatc agtacaaaaa taacagcttg 120
attaaaatta atttgtatct gataattgtt tacaagttat gaaattcagt gatgatttac 180
aaaatccaaa cagacaatgg atacctaattg ccaactgagct gtaaaacaaa agttatgctg 240
acatctagt gtaacataca aaaaatctat gctttacca attttgatga tatcatttct 300
cttcacaaat ttcactcctt tgttgatata ctttcctgaa ctcttcacca agcagatcaa 360
tatcatcctc ttttttaaat actcctttag ggagatacct antaagtttg tacatgctct 420
ttaagaaatt ttagcccttc ctctccata attgcattaa taaatccctg gcgcctttgc 480
tgcaactgcca ctctccaat tcnctnttt gtcncaagg aatntttggn gaaacnctc 540
catnaatttt tcccaa 556

<210> 9727

<211> 598

<212> DNA

<213> Homo sapiens

<400> 9727

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aattaatttc caaaaatgtg caagaaatta ctataatttg ttacaaacc aaaacacgta 120

ttaaaatcaa tggacttttg ataattcatt ctgtggtgtt ctcagtacaa atggtacaca 180
 cctgatttga aacatacaga aaaagtgtna actaccgcaa tctgaattgc aagtattaat 240
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 aattctataa gaatttttca taatctctgg atgtagagtt tggatcactt ttcagaaaca 360
 gcaactacac acttcgccat gttatgactg attaataaaa agaattgttn taaaaacccn 420
 tccttacngg attaaaaaag tttttaaga aancntatit gtgantggca atgttncccc 480
 ccttttgaaa ttttaaatit ttttcggaac cngggtttgt tccctattaa aatttccaaa 540
 aaaccgtccn atggnggggg tgggtggtcc ctttggnaat tnaaaacccc ctttagnn 598

<210> 9728

<211> 381

<212> DNA

<213> Homo sapiens

<400> 9728

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 atgtgcaaca gtaggccttg gtatgatgct gccataacac tcccatgtga cactccaggt 180
 gacatccaag tgcaagtcta tggtcagctc tggacancan gggggaaggt gaggaaantc 240
 angctgttaa attgaanctg ggcaggggccc tgnctggctg gaaatgtgtg ggcaagggtga 300
 gcangcccca tgtgcacccc anctccattg cccactgatt tggctnaacc ccantttggt 360
 tntggtcaaa ttaaangtcn t 381

<210> 9729

<211> 551

<212> DNA

<213> Homo sapiens

<400> 9729

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 taaaacctcc t 551

<210> 9730

<211> 366

<212> DNA

<213> Homo sapiens

<400> 9730

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 agcaagatat caaactgata gccagactat aaaatgtata catccttttt aaattttttg 120
 aattttttta caaagagccc ttactataat ggtcacttac ctcctatcat tcacataaca 180
 gcagtagata tcccaggggt agcatccaga gctgaggtgc cccaaggaag acagaggcaa 240
 tggcagaata atatgctgag aaaggactct taagaagcaa tacnaagaga acagacnaaa 300
 atctcncnc aaaattgtac ctgagtga aattggtaaa ntgttttact ttnttttttc 360
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<210> 9731

<211> 521

<212> DNA

<213> Homo sapiens

<400> 9731

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accagattca gaaagacaca gggaacactt tagcttctca tcttcaatgt gaataaacct 120
caatcatttt ctttgcatta tttcaaanaa ttcattcta tagcttagtt tgggtctcat 180
ccttattaaa aagttaaggg aagtagctga caatctcacc aaagctctat acaattgcan 240
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aagacagata aaatcnagan atggtcntat tgatgaaaca gtatgtctta aattttccta 360
tgctecnaaa tagggaaatt aacagctacc ttaaattaga aataactaag tgaacagttt 420
cctcnggtnc atttagtgaa gcatttgta gantcctttc tcaatttcct cccattatt 480
gttctattcc aattctcncc tcnaaaaaaa nncactttta a 521

<210> 9732

<211> 584

<212> DNA

<213> Homo sapiens

<400> 9732

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taagctcttg aaaatgtcca gaagctcaca cttagtatga tattaaaagg cacttataac 180
acacaataag atacttagaa acccatctca tagatacaat tgaaatttct ttgagaaaaa 240
tttctaaata tagaaataaa taggacggca ctatttcttc tttccaaaa cacagaatag 300
cattttcccc atgttaccta tacacacat aaatgtggac acctctccc attttgttc 360
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atttggttta aaataaagca aaattcctaa tttgtttnc aggatcttta aaataccggg 480
cttatttcca ttttggtttt aaatcccaat cccttaatta ggaaaataag angccnaant 540
ttaaaaattc ttctatttac tgcccaatcc cccaagcaca atnt 584

<210> 9733

<211> 434

<212> DNA

<213> Homo sapiens

<400> 9733

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gaaactggaa taagtgttta ttttctatta ataaaaatga attgtgacaa aagtggactc   60
tggtttcccc tccccctac ccctctggga taaaaatttt ccagcattgc caggagcttt  120
caggtacaca ttaaagaata aaatgaagtt aagcagctgg agtataggat agtatttgat  180
tttcaagatc acccaaagct gcactatcgt ccaaagctg accaagtaga ataaaaagaa  240
aaaaaaaaaa aacaacccat gcgcaaanat anacatttgc ttgatctgct ggctcagggc  300
caaatgttta atttgcttct ccaaagtcac tcattctcaa aantctgatt ctgggaaact  360
gatgccncta ccctaaaacc ccnctgacca tnttattgtg catcagttnc cnettgtcca  420
ntaagcattt atcc                                     434

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<210> 9734

<211> 519

<212> DNA

<213> Homo sapiens

<400> 9734

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aagaanacaa ttttaataag tatctacctg tgtcagttac aacaagtga gacctgcctg   60
ttttcatttt ttttaacttt tcccttctg gaaagatacc attactttgt cttttagagg  120
tattgacaaa ctcaagtcaat tcacacttcc acattgatat gtgatgcagt cttgaatgag  180
aatagaagtt tgaaataaaa ttgcagtctg aaggtttgga tggcactgaa ggtgctgcct  240
tgctaaacgt anatactgaa gaagtgtttt ttgtgcttga aggcccctga acagtggagt  300
ggtagacacc attgatttta gtgttactgt gcaaaggatga taatganaaa naattanttc  360
tgtgtggatc cgcaaagcat ctgtgtttct ggtgcttgct gcactgctgc aaaatgcac  420
tctgaaatca gtgctgctct nctcancctt atcncncnc tgggaaaagg ctggaaaaaa  480

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cctgctggca cactgttnac catgggceca ancaancct

519

<210> 9735

<211> 353

<212> DNA

<213> Homo sapiens

<400> 9735

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agccagggtt cctttcagtg cgaatgttgt aagaaaaacc aagatctgag tcctaggtgc 120
tactaagtct tagttacatt ttggtgcact gcgcttaaca caccattact ttataaaata 180
caaacaagag agatagttca aataaaatct aaactcataa ttacttggtg gtaagacgac 240
tcatacgctt taaactctcc tcaaataat tttactgcca gttgatagaa naacctggat 300
ccccacccca attcctaatt cctaaatfff nccccctccc ccctnancnn gct 353

<210> 9736

<211> 515

<212> DNA

<213> Homo sapiens

<400> 9736

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atgaatcata taaactgtag actgccacta ccacgatact tctgtgacac agaaggaatg 180
tcctatftgc ctatctatct gaggaatgtt aaatagagaa aaatagatta taaaacaacc 240
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caatctgtaa taaaatagtt aaaggtccaa gtcaagtcca cttctacttg gctggcccag 360
cacaagaaat ctaacagcac ttgtaatca ttttgctfff ctaatfttc cggaagacat 420
gggccattga catataagga aaaaaaacna aaaccaaaaa cgantaagtt agttgtgtna 480

tccnaaccng tganttccaa agaaaanttg ccggg

515

<210> 9737

<211> 466

<212> DNA

<213> Homo sapiens

<400> 9737

ataaaacaat ttccatgttt accaaatgca acacatttcc ttttctatta agaanaaaaa	60
gccggttgca acccactaaa gtgatttgat ggccaaagaa taggtagcaa tttgcatttt	120
gaaaaatact tatttaata gaaatttgtc agacatgtag aaaccagtca cattgtagct	180
ctggcagatt tctgcaggag atccagtac acatttcatg gtcctagaaa tggttttcct	240
tactctttga atctttcacg gttgatgagg tgggtgttgt gatgaaggcc aagggaanan	300
agtggagaaa atggtgatgg gagganttta ggaggccaag tcttaattct gctcaggcag	360
aaaacagttg aantgtctgt gatgcattgt ccanacacga atgagacacn naccctggtc	420
tatggcggct tataatccaa ggtgttgctt cntattaaac ngganc	466

<210> 9738

<211> 520

<212> DNA

<213> Homo sapiens

<400> 9738

gaagtttggt gatgttttaa tgaccaagt tagggaaaag gatgaggaga gatcatgctg	60
ttagcaggct ctggggatcc tatggtcaca tggaaagagg gattcctcaa caatgagggg	120
tgtggtcatc tccataaatt gcagacagac attgaggtca gggagacatc ttcccacact	180
tgcaaaatct tcatanaaca tggtggaagt ggatggacaa agatgtatgg tgttggccat	240
ttattattac cttgggggaa atgccagatg anctgatact gatcacggtc agattttgga	300
aacganctga ggatanccgt gcaaccanan ggtgctctgg tattcattgt ctancaccaa	360

gatgctcana tcaaattggt tgccgtcctt gaaanaacac attgtnggca tctccccctca 420
 cacttccagg cccacacac ntggctgtcn atnaccaaac aatgggcca atnecccccc 480
 aaaatggaaa ggcaaattct gaatttcnncn tcccccccn 520

<210> 9739

<211> 518

<212> DNA

<213> Homo sapiens

<400> 9739

gcactactta ccagagggtt ttatttgcc tctaattcc atcccagcac agcccagagaa 60
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 tccttataaa aatcaagcct ctatgacttt ttgtctttcc agtgtgagat ggcaaaaggc 180
 ttcatgggtt tctctgcctc ttagtagcaa tctcttctt gatccctttg tttgaattct 240
 tcttttattg ctctatacct agaatttaaa aatgtcctgt cttttctctc cagtaacaga 300
 cctgacctgt tgcaggtggg ggagtctgcc actganaaac agcaagaagg tactgggttc 360
 ctccccctt tttggcagtc tgggctggct acccttcccc ccatcttggc anaaaaatgg 420
 tttctgaccc tncctctggga tgggaaatta ggaatnaaga aaaggaaaag cccacttttt 480
 tgctactgcc aaaattgcat tgcncncttt ggantntn 518

<210> 9740

<211> 556

<212> DNA

<213> Homo sapiens

<400> 9740

agtgtgant acatttattg aagantctct ccctgtataa gcccatgtta aangtctcag 60
 cactaacaca agantcnaaa aggaagccca catctctctt tcatacagga tttgtgcaa 120
 tactatattc ttccaaccag tgagtaatct caaagtgtga tgggtgagtt ttacatantc 180

ttctttgttt cgaatccaat tggctgattt gttaccattc tagaggctga actgtatgaa 240
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caaatgtcnc aggtccgac caagtataac cacatccttt ggaaatcctt ccatttttgc 360
aatttcaaaa catcctaact tgctgtnaaa ttcccanaat tcctttatcc tccgggtcccc 420
ctccccaaaa aaccnccccg ggaaccttta cctccattn aaaanaggaa ggcaaccctn 480
cttnccttttg gccncccttg ggtcagttac tttttggtga atntccccct ttccaaaaa 540
gggaatttnc cgggaa 556

<210> 9741

<211> 487

<212> DNA

<213> Homo sapiens

<400> 9741

gcaagttaaa ttacatctat tatataaaga gatcctataa cttgatacga aaaacaaagc 60
aactccaaca gataacagaa gggcaaaagg acaggaacat ctgatcaaag aaacacagct 120
accgatagca cacaaatatt caacctcatt aataatcaaa ggattaggat gcacttcttg 180
cttattcaat aaagttaata atttctaatt tttctacttt tcaaattgtac tcaaattgtgc 240
tatttttagt aataaaaaac tgagtaatta aaaaaacata gaaagtatga aaatttctgc 300
caatgcagaa atcataaaca gcattaaaat gaatcaacac ttgtatgggc agtaagggtc 360
agaccctaa aanccaattc attttgcctt ggttcctgan ttttattatg gggattgtcn 420
ataaaggana aagttgticc tgatttcat gctgacaatc ttccangtat anggggggtt 480
ttntttn 487

<210> 9742

<211> 494

<212> DNA

<213> Homo sapiens

<400> 9742

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gttttttttg gtcatactac atttcacttt attattatta acatttatca tacacggggt 60
actattccaa tctttcatgc agacaaaaat aaacaatata aaatacataa tgcactttga 120
taattttaac catacataaa atatgggagt aatgggaagc tatgttacat ggatatttta 180
caaaggaaaa aaagatgact tttataataa cacatccaga tgaaatttat cattaaattt 240
tggatttcat atgatgttaa gtatggatat attcaaaaca attactattt atagaaccaa 300
tttgatattt tgtcatttaa aataatgaat actatgtnaa tgagtactta taaaaatatt 360
tttaggcaaa aagctctggt ctactcattt acttgccagt tacaaaaata tatattcnc 420
tgaaactcna ataaatttgc ttgangnntt agatattcca attccaatgt ttattttcna 480
aagcgtccta ncca 494
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<210> 9743

<211> 534

<212> DNA

<213> Homo sapiens

<400> 9743

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anacagagtc tccctctggt gcctaggctg gagtgtantg gtgcaatctc agctcactgc 60
aacctccacc tcccagggtc aagcaattct cgtgcctcag cctcccaagt agctaggaat 120
acaggatatgc accaccacac ccagctaatt tttgtgtttt tagtaaaana cagggtttca 180
ccatattggc caggctgggt ttgagctcct gacctcaagt ggtccaccgc ctttggcctc 240
ccaaagtgct ggaattataa gcatgagcca cgctaccag ccaccctag gaaactttaa 300
tgccacaaat gtattatata tctgtttatg tactatggcc ctttgaaggg tcaaaaacca 360
ttgttatatt caagattttt ttacaccttt caagantcaa catttgcctt cttgcggtag 420
tatctcccat tgaaaaatgc atgctgtanc gcatgttaca atatccanan tatattttaa 480
ggtaaaaaca ccaagggtgga aaaanantat ttacantgcg ctaacacttt tctn 534
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<210> 9744

<211> 530

<212> DNA

<213> Homo sapiens

<400> 9744

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cataaataag tattataact ttattaaaat gaaaagacaa tattcaaaat aatgcaacaa 60
aatgaataaa atcctttgtc caatactgta cacataatgc agaaatcagt gcatttttct 120
taagcatggt ttaaccttca tttagtcat actaaaatat aataagcttt aaatagctca 180
aataatattc agcagtttaa actgtaaaca gcttgtttaa ctgttaanag aacattgcag 240
taatgtacct ctgttagtga gcaccttctc ttctgtgctt atctcttcaa gataaataca 300
tggaaggatg tgaaaatcgg aacaccaact atgtgtctca ctgcatctaa gtgaagcacc 360
acagctgtga gagttttcna agcaaaaana ngctgatgtg acctccggaa ttcanacata 420
ctgagctatg ggtcgnaaat gttttactta aaaagccaac aatcccccg gaaatctgaat 480
gggaacngcc ncccngggcn gcctgtgttg tttgtttatt aaaaccnccn 530
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<210> 9745

<211> 543

<212> DNA

<213> Homo sapiens

<400> 9745

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ccaaatacaa ctttgggaatt agtcacaaaa aatcaacata tattctcaga aattgtacca 60
tttcctttgg tctacaatcc acgctatagg aggttcaata taatattaaa taatgtacca 120
tttaccctaa aagtaggttc tagaaaactg actattagga ttgaataaca aggctttaat 180
ggctcaattt tcttatgatt atacaaacat ataaatcttg aaaaggtaac gccatttagt 240
aaaatccata aaaataacag ttttgccaca gtgcaaanaa aagttcattc agtttgattc 300
cccatgccct cgacaagcag ctttctgatt anagctggaa aacacaggct ggggtgcagt 360
gcnaccccg antcccanct actggggagg ctgaagtgga aggatcactt naccaggaa 420
tttccgaaca tctgggcaca taccaaaacc ctgtctcttt ttttaacttg aanaaataaa 480
ntctntactt cntnccttga aacntgaatt ttctacgaaa atttgtnaaa attactttta 540
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aat

543

<210> 9746

<211> 545

<212> DNA

<213> Homo sapiens

<400> 9746

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aactctttgg tctcttgtaa taatgctgac agtcttcctt ctacatcagt agtttttggtg   60
gctattatag tctcggtctc tccttgtagc tcaactgatt ttgcaaacgc ttctgttttc   120
tgtaacagtt cctgcttttc tgtctgtagt ttggtgatct ccacagattg tgagtttaac   180
tganacttta aagttgccag ttcctgtttt aattctgcaa ctgtttcaga atctctagct   240
gaaactattg ctgaanactg ttcatttggt ccagatgttt gggaagattt catattttca   300
atcatagagt ccttttcagt cagctggcct tgtaaaagtt cctgattacg ttttaattct   360
ctatctcttc tcgcaatcta ccaattcctt ctggctgaat gccatcatct ganccctca   420
ctgtaagaan ctggaatgct gatgtctttn ccantgtat tttaaaaaaa tatactggtc   480
ttgtgcncgt gatctgtgan actgctgtgt tacgccgnct gaaccgtcat ttganatttn   540
atgtt                                           545
    
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<210> 9747

<211> 518

<212> DNA

<213> Homo sapiens

<400> 9747

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gttttttgag acagtctcgc tttgtcacc aggctggagt gcagtggcac aaccttggct   60
cactgcaacc tccgcctcct ggggtcaagt gattctcgtg cctcccaggt agctgggatt   120
acagggtgtg accaccatgc ccagctaatt tttatatatt tagtaaanat ggggttttgc   180
catgttggcc aaactgggtt agaactcctg gcctcaaagt gtctgcccac cttggcatcc   240
    
```

caaaatgctg ggattacagg cataagccac cgcgccagc caacacttaa ctgatttctt 300
 atttcctaataaaaaaggatc tgtttggtat cctataatac tgatgcacct tgatttgctc 360
 cgttcaccca nnaattcttc tgaaaacnct gttgttcctg tggtaggctaa tgttccccca 420
 aaatggaaac cccnttggcc anggaaaatt taaattaaaa ccnntaaaat ttaaaaaaatt 480
 ccttaaatcc gnaaccaatn acaccaaant tccttttt 518

<210> 9748

<211> 513

<212> DNA

<213> Homo sapiens

<400> 9748

agacacaaac atctagttaa ttttttctga ctgtaaccaa agtcagcaaa agaaacaaca 60
 aaacttcagt gccctaaaaa tcctcctgga ttcnatgaca acacatcaat ggccgggcac 120
 agggttggat tccttttatg aaatcacctt ataatctctc atcatcccag gacagtgcct 180
 tttgggactg catgaatctt taatagctac accacatttt ctcatccttt aagttatgac 240
 agacaggtta tctctctcca agagcatcag gttagatgct ctttactctt taaaaactgt 300
 caggtggagg gagaatcacg acatcattcn taaataactg tggantctgg gatgctggct 360
 gaaagcatct ccangaaaga ctggagggcg antttgctaa agggctgctc actgctcntt 420
 tcatgcatg ccccttttct ccctttggtt nggaatttna angacnttt ttccccaaaa 480
 ttaaaacccc cnttaaaac canccctgcc ctt 513

<210> 9749

<211> 505

<212> DNA

<213> Homo sapiens

<400> 9749

gagtattcca gcattattta ttgatcaga ntaaaatata cttcccatca ctacaaactg 60

agcacaacta cagttgtcta cacattcata tttttgacgt gccaacattt tgcattctac 120
 atgaaacatt tggtttaaac aaaatcttaa gaagtctcta tttgtttcc catcttcctt 180
 cctgtcctct cccatcctcc aaagatgttt tatattaact gctatgagat ttatttgccg 240
 gtcacgtnat acggaggaca gcagggaaca acacaagatt taccatgcct aggggatgaa 300
 tggcaaacc aactttggct aatgtcattg agaacaactt ggaagcgtga gcagagatat 360
 ctcatgaagt ggcagtgaac ctacatttcc atttatcaga agcnaacatg gaaggttaca 420
 tacatgatga antattggaa gttaaagact tnagacacca aatccctaatt ttnaaagaac 480
 atgccnctg natttcaact tgcna 505

<210> 9750

<211> 608

<212> DNA

<213> Homo sapiens

<400> 9750

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 gctcttgcct tgccctccca aagtgtctggg attacagacg tgantccac gcctggccgg 120
 taatttctca ttgtgaattg attgggtccc tgtaagtcca gancctgtcc tgagtccttc 180
 atctgaatga ggggtgaaaag actgagtttt ctgtcccggg tgacaaggac agaatctgtc 240
 ttgtgaaaca accagaagaa aattccccta agaaagccgt ctagcggggc agtggacaca 300
 acactattct atatcanaca attaaatgtg agggatgaan ggtgaacccc aactggtgcg 360
 taataacact taggattaaa atgaaaatat gcaagttcca gtgactttca aatctggcaa 420
 caaatcctaa gattcccacc cctcctgca acaatgattc naaaatacca tatttttttc 480
 ctctccctct cctccatcca taattaccan ctgaatgttc cccatnttct ccataaaacc 540
 cacaccaaac atcaccttgg gnccaatntt tanaaaaatt tggcttccgg tcccccttg 600
 ccctttaa 608

<210> 9751

<211> 503

<212> DNA

<213> Homo sapiens

<400> 9751

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gtaganccat tctatccatc cagctatgaa atcttctcta aaagcctctc ctctgggtgc   60
ccattgcact tttatctgta ctgacttggg ctacttgtca gttgtatatt tgcctgtatt  120
gtctcccata ctgaaacata aaatccccgt ggacaagaaa catgtcttac tcatcttagt  180
atttctagca cctagcacag tactaggcac acagtcnata cctaataaat atgccgaata  240
aatgaaagca cattacggaa tggaaggtag aaagccacag ttggacattt tccataatag  300
tgtattttca acccttacag aaatagactt gcagtggaaat gtctactatt tagcagctga  360
attcagactt ggggaanagc ccanaaactg ctacacttca cagatgggtca tttggaaaan  420
aaaattaatg canaaanctt gtgtactatt taataatanc tcaggaatag gtccaaataa  480
caaatccnct gatnccccga naa                                           503

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<210> 9752

<211> 604

<212> DNA

<213> Homo sapiens

<400> 9752

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cttagtatat actttaatgc atgtttatgt gcaatcttgt tagtgggtat acaagtttgt   60
gaanaacttc tcatttcaat aggcagttaa tgtaatgcat taaaagcctg ggaatttggg  120
gctatatttt tcctttctga ctcaataatc ttcaaanaat tcataggaaa gtcagtactt  180
gcanacaagt ggtagcttg gctaaaatgt acaaaacacc cagaaccac aaacactca  240
gaggtttagg aaaatgtttt aatgcttaaa angcaggatc aantgaanag gttacanaaa  300
tcagtgtctc tggctgggca gtcaaaaaan caggctcaaa ttctgtgact cactnctctg  360
tgtctcggtt ggaaatnaat gggatcctg gttccacact tcccacacgc tgtgatactt  420
caaactcctt gggatgaagg ncncttctca cccaaaatct tgattgtgaa cataacaaan  480
aaaacatccn cctccacaaa aaaaactcct taatgacntt tgatccntga ataaatattc  540

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ntttaaaaa atnttttggg gggatcttaa aatttttgaa gtnttcccc ccgaaaaaat 600
ggtt 604

<210> 9753

<211> 589

<212> DNA

<213> Homo sapiens

<400> 9753

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gtctcccagc tgggcctccc aaggcactgg gactacagtc atgancaacc tctcctagcc 120
ctgttttctt gtaataaagt aaatgcagtg ttcatttttag taacaaaaca ggtcttcact 180
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gcaggctcca ggaatgatgt aattttgcct cctctcaagg ctggcctcaa ggaggcctga 300
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ttcaaacggg ctaaatntgg gttctgcttg accactttct gtntttcatt tggcaattcn 480
cttcccctct ctnaaccttt ttcatttctg cctatctaaa atcaaaatcc cncctnatt 540
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<210> 9754

<211> 538

<212> DNA

<213> Homo sapiens

<400> 9754

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cctgaagtga aagcagtcct ggcaacttaa tatttgccctc cagatgggtc tctagtcagt 120
tcatgctgaa acacagctct gccaccaca acttgagct gaccagcccc cagggaaca 180

tggaananga caggacacac ctgttctana aaaccaggtc ctcagtaaac actgctggga 240
 atgaaagcct aaaattatac agtactccat tcctgtgaac gggccaaagg atgacgggca 300
 acacagggga aacctgtttt cacatttggt catctcctca catttcgtnt ganctggang 360
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 aggcaaaaat gccatgctca ctgcaaacta tggaaatgan gtcaaaacaa aatcaantta 480
 ncccttgatg ggaaaaantt ggncccaaaa acccatttct aaaaanggtc ccctgntt 538

<210> 9755

<211> 499

<212> DNA

<213> Homo sapiens

<400> 9755

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 cctacaaaaa gtcctttgtg gcaaactact atganangaa actccatcaa aagtcccaat 180
 tgttcatttc atttctactg tgctacggaa gcctggtttt gttttaaggg ctaacgtcct 240
 aggttttaag caattttttt tgagctttgg ctaccagct aacaagcagt aaaataatca 300
 actcaaaact acgtctgatg ccaaagctct aactctaaaa ctcaatatan antttttttt 360
 ctgtgacacc tcccctcgtg tctcccctaa ctgcgactcg cattaactcg ctgctgggtc 420
 ccantggan ancacaaatt gcacctgctc cnaaacccaa cggggctcaa tntctccgca 480
 ctcaaccten gctgcctnt 499

<210> 9756

<211> 607

<212> DNA

<213> Homo sapiens

<400> 9756

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 taggcaaagg tctagctttt cagtggcaac ttgaagaaac caaagatgaa tgatgctaaa 180
 ggaatgaccc tttggtacct gttttaaagt acttctggcc cccttctttt ataaaccccc 240
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 aatgtaataa ctgaanatat gggccagttt gtccatgtca cgttccgact tgtangtcag 360
 ggtgaactgt ccattaatgc tgtaaaccct gaccaacaaa gcagaaatta cnatgttaac 420
 tccaaatcct aaactttttg gcccctttct cccacacat caggccagtg taaangaaac 480
 anaccttca agctgagtaa tcctttatcc attaacatgg tgttacttaa aaactactaa 540
 gggccagttt ggttgctgct gcccctggga aaccaaagga caccnccgc tcccaaaact 600
 gganann 607

<210> 9757

<211> 509

<212> DNA

<213> Homo sapiens

<400> 9757

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 atcagctctg canaggccag ccctggagca aangaggatt cagggccatg gaggggacct 180
 actctgccct gttctggtea ctacttctct anactctcat gcactattgt ctgtancaag 240
 tgacatttcc actggaanca cataaagatg gcgacagcct catttcttcc tgagtgaact 300
 gaancccnaa aaaaggggag gtcccncaa aggggaaaaa accaggggccc cacccaacaa 360
 ggatgctgaa ataaactaca tntnntgctt tctaggaac aacacaaaaa tctctactct 420
 gaaatccaaa atnttaata tgggcncccc ctctataatt taactgtaca accttatcan 480
 tcatttaaaa cccccncc nacaatanc 509

<210> 9758

<211> 434

<212> DNA

<213> Homo sapiens

<400> 9758

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aagtgagcag atattttaat atgctttatg ttaataggat tctgataatt ttagctttan   60
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ataatttnaa aaatcagagt gtnatgacat tcccngacaa cttcaaataa gttatgtgag  180
gaggatgaac tatgggtagt cnagaccacc agtcataatt gtctanccgt agaaacagtg  240
actacttnna gatctgcaaa gatcanagca caactggctg aangtgcanc attctataca  300
tgtcctcatg gagcttcaca aaggttatna gatgaccacac tcactctggt tggctgtggc  360
catngacaga caccataaaa tcctnggatg tgggccantn ctgaactgng ggggcgngtc  420
tgaacttgcn ttaa                                     434

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<210> 9759

<211> 396

<212> DNA

<213> Homo sapiens

<400> 9759

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cccaggtaca acagcaggtt cttttccaat tcctcaaanc gctgcatggg gtggggggcan   60
aaacanaaaa aaatnttaac attgggttcc accccctgga gctcaaggga aaacccttac  120
ccaaataggg actaactgga ggggtngaag ggaacaaggt gaaaggtatg ggtcctggtg  180
aaacaaaanc aggggggcct gaaaacacaa aacaaggtgg gtttggaggg ancacaccan  240
ggttcncgaa aggaaattgg ggacatttcc tattccagtg catgtcccct taaataaact  300
gggttcagga ccnttntgga agganaaccc nnggacaaaa aacaaancga gcacccccnc  360
cccaggccaa ccccatcctc tttaccaat tacaac                                     396

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<210> 9760

<211> 576

<212> DNA

<213> Homo sapiens

<400> 9760

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aattctggaa gatttttaaat caatttaaca ctattataca ttagaggaaa aaattttgca 60
caaacactcc ctacaaaagc cagtagtctt atatttacat agcatgatta tggtaattta 120
aaatgttaat ctatgataca atgttacttc agaaaacata taataaaaata tagttgtctt 180
atagccatgc tcccattttt gatgaaagct agttagcaaa tcctaagtgt agtttaatac 240
tttaaaaatg cataacagat attcagtcag cattataaaa cctttaagac agaaggntgt 300
caagcagaat agacagaggg ctcatcatca cttatgtctg aatcttcac tactccttca 360
ataaccgatt tcttcccttt acaacaggat acaattaatc caatcaaaaa taccccaaga 420
aagggccagt taccaaaata gtnagcacc tgaagaaccc aaacttnttt aaggaatagg 480
tttttccggg taacattacc tggnttttcg ggaaatttgn ntcanttttt tttgggaaaa 540
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<210> 9761

<211> 496

<212> DNA

<213> Homo sapiens

<400> 9761

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gcagttgtac atccatcatc acatctaagt ttagaacact ttcatgccc ccagaataaa 180
ccgtgttcct gttagcagcc actttccatt cctccctccc gccagcctgc agcaactact 240
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actttttagg gccatataat attccattgt tatagctatg ccanatttgg tttatctatt 360
cattanctga aggggcattn gggctatncc catttctcaa ttattataaa taaggctgct 420

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atnaacattg tgtgcaantt tttctgggga nacatntttt catttgcctg ggggtaaana 480
cccagnaatt gtancc 496

<210> 9762

<211> 496

<212> DNA

<213> Homo sapiens

<400> 9762

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tgtttttcag ctccatcaga tcatttatgt tcttctctaa agtggttatt ctagtttagca 180
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aagtgttctg gtttttggaa ttttcacctt tttgcaactgg tttttcctca tcttcatgga 420
tttatctacc tttggtcttt gangcnggtg aacctccgaa tgggttttng tgttggaaat 480
tcctnngtt naaatt 496

<210> 9763

<211> 514

<212> DNA

<213> Homo sapiens

<400> 9763

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aaggaaaggg aaaanttcta agttgaaact ttttttgagt gtcaatcccc gctgggacac 120
acatattaca aaataaagat ttcttccgta aagtgtgtt tgctcagtga atcatgcgcc 180
accacagaac accatggctc cacctgctca agancatgga ggangcagca tcggcagang 240

gcangcanga ntctgtgttt gggggctctgt ttcaatacca tctcctgggg ttgcccgtga 300
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 accactgcaa gctggangcg gctgggtatc anggcctggg caccctgctc ctcctcttcc 420
 cttgggattg gcattttatc tctccttcac tcaaaacatg ggcangaaat ctcngcncc 480
 ccnnaattt tccnnggggt ttccccttc ccn 514

<210> 9764

<211> 456

<212> DNA

<213> Homo sapiens

<400> 9764

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 tatgatgaca aagatgtgta gaatcatgtc aactaccgt acaaatcagt aagcaaaaag 180
 gtnaaacaat gaaaatttaa gaaaaaaaca atttattgaa gaaacacaaa tagcccnnaa 240
 acataccaga agatgttaaa cctcactaat gattaaatcn atgccnaata aaatgatact 300
 gaggtngat ttgcaagtna aactaaagtt actaacaaaa tccaatgtta gtgaaactgt 360
 gagaatatat gcctttgttc acattattgg caaaagtnen aatttgggggt ctgaaaggaa 420
 atttaaatat gttcccnnta tgttcncnng ttcct 456

<210> 9765

<211> 476

<212> DNA

<213> Homo sapiens

<400> 9765

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natacattta aggcataat aataggtgcc actgaggaca tacattgtga agaaaganaa 180
 gaataagtc aataactaaa catacttata atgacaactc naggtgacat gaatatatta 240
 tgaaaattta gaatataaca acatatgact ctcatctgt ggacataaaa ggaaaaatac 300
 agtaattcat ttactcatt acattttaca aaatcagccc aatgaagcag tattttttta 360
 taaaaacagt aatttaattt caaacaata tattaccatc ccaatccctt ancctgggta 420
 aatntttccn aatgggcaaa acntacttta ctgaaattca ntaccanncc atccca 476

<210> 9766

<211> 492

<212> DNA

<213> Homo sapiens

<400> 9766

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 agatatttgt naatgagatc ttctcttttg ctactgtgta tatatatcc ttatatattca 180
 taaaactcn caacacatga catttcatat ttcatatgcc actgagaaga ggtgtctgtn 240
 tncagaacat aggaagaaga aaaaagcgtg agaacatctg cttagttaga atctgatgag 300
 gagagacgtg agagctattg ttctctctc tgctcaggcc tatcgagagg caactgcagt 360
 ttttgcta atgttctcct gaggaattct gctcactctg ctatgggtcat ctccnangtt 420
 gggcgtgaga acancctggg ccccttgaa taaatttaaa anaacattng gggggattga 480
 atatgatntg cc 492

<210> 9767

<211> 463

<212> DNA

<213> Homo sapiens

<400> 9767

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 actgaaagac taatctgctc caaatgctc ccaagtagaa atgacaggac tcaaaatccc 180
 tttctaaagc ccaacagcta actttttctg actaatctct agcttcattg aaactggcta 240
 ccaagattgc atttcaggct aacaattggc ttcttagtta aggcatcaca actgaaaatg 300
 gttatttcaa caatggatgc tgtggatgaa ggaataccaa caaacttcta agaactctca 360
 tcaaaaacta aagcaatttg ctttgcccca gtggcaggca gaaggaattt agccattat 420
 ctcacaaact aggaaangan ttttggaatn ctnantanc ant 463

<210> 9768

<211> 536

<212> DNA

<213> Homo sapiens

<400> 9768

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 tcctgcctca gcctcccgaa tagctgggat tacaggcgtg caccaccatg cccagctaat 180
 tattgtattt ttagtaaaaa tggggtttca ccacgttggc caggctggtc tcgaactcct 240
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 ctgcacgcag cttttctata cactttaaat catctctagt ttacttataa taatgaatgc 360
 naagganatg cgatgttaat aattgttaca ctacattgtt taaggaacca agaccagaaa 420
 aaaatccgtn cacattccat acanatgcca ttccttttt ncntnttttt gatctgttgt 480
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<210> 9769

<211> 497

<212> DNA

<213> Homo sapiens

<400> 9769

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gaacgccaag cttttttttt ttttaattaaa aagaaaaaaa aagagagaga aaaaattcca 60
cattcattaa aatctctttc tcttgataat ttctggtttc cagctgactg gatgagtttc 120
ttctgtggct gtgtcatcct ctctgtatac tttaatgggt ttatcagctt cagctgtag 180
taatcgactt tcagactgat caaaagcaca agcaaattatt cctgattcac tgtccaaaga 240
cccaggttgc acagctgcgt gaactctctg aaaattgtag ccagttctcc agtcccaaag 300
atgcatgggt ccattgtcag ctccagatac aagcactcca tcagaattta cegtcaatgt 360
gttaataata gcattatgac cggaaagatt ttgaatgaaa ctccatcag ggaatttcca 420
ctgctttatg ttatctggag aancanagc caatgtntta tgtcttgat gttaaancnc 480
agccnaacn gaatttt 497

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<210> 9770

<211> 598

<212> DNA

<213> Homo sapiens

<400> 9770

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gagacagagt ctgctctgt cactctgtcg ctctgtcacc aggttggagt gcantggcac 60
gatctgggct cactgcaacc tccgcctccc gggccaant gantctctg ccttancctc 120
ctgaataact gggaatacan gnacatgcca ccatgcccgg gctcattttc tgtattttta 180
gtaaaaaac ggggtttcac catgttggtc aggatgggtc ctaactccag acctcgtgat 240
ccgcccgtt tggcctccca aagtgtggg attacaggca tgagccacca cacctggccc 300
ctcttttctt tcttaatcac aggatgtggg tcactcttct gtaggcaggt gagtttactg 360
cacatactct ggaataccac tgttcanaat gtcaaattaa atacagtgcc aacactgact 420
gaangcggtt tactggggaa aaaactactg aaaaaagaat tcntaattat nttctacanc 480
actgttantic canggctacc tactgttcta agttaaacg aaattntcta accccccgaa 540
ntcctaaac caatactcca aatctcctaa acatcttgga agaattntnt tccccct 598

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<210> 9771

<211> 607

<212> DNA

<213> Homo sapiens

<400> 9771

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tcaagtaatc ccctcacctt gaactcccaa agcacttgga ctacaggtgt ganccactgt 120
gcctggcccc taaagtatit ttaattaagg tatatacatt gtgttttana cacttcgcag 180
cctacagtac agtgtaaate cttttttttt tttagagacga aatcttgctc tgtggcccan 240
gatggantat ggtggtgcaa tcatagttca ctgcaacctc cgcctcccag gttcaagcaa 300
ttctcctgcc tcagcctctt gagtancctg gactacaggt gtgcaacccc acacccggct 360
aatitttgta tttttactaa aaacagggtt tcaacatgtt ggccangctg gtcttgaaat 420
tcctgacctt gtgatccgcc caccttggn ccccaaaant gctgggaatt acangcgtna 480
accaccgcaa cnggcctaa tttttttttt ttccatttt gggtcncctg aaaccccccc 540
nccccgttca aattaatate ccccccccc caccantttc ttaaaatag ggacccccca 600
cttnccg 607
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<210> 9772

<211> 600

<212> DNA

<213> Homo sapiens

<400> 9772

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tcagactata acaatgctgc atagatagtg gtatacaagt tccctgactc taacttcttc 120
ctaacttaaa agttcaattt tcaagtcacc aggtagaaaa tggtaggaggc attatttcct 180
ctttctgagg ctataaaaaa atggcttcaa tggtagagaag gcaaaccatt taaacaatga 240
agattagatt atacccaat ttaattctat tcccttcttg ttgtttattt ctcatagatg 300
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aaaatttaga atgtnataat tattggaaag gaataagaag tgaattacct cttaggagat 360
 accctgatca gtgcctgctt taatcagaca aaacactaag ttttaaaaat tacaaccaca 420
 atattatgcc taactaaaat tgccaatatg aatacttttt tacagaatac attacatggt 480
 ttccagaana aaaatacttg tttcctatcc cccgaacctc ngttaaaaaa aaatntttcc 540
 cttaccngga tncgaaaatt ttttcccggt ggaacattac cccnnggggt tcaatctttn 600

<210> 9773

<211> 500

<212> DNA

<213> Homo sapiens

<400> 9773

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 ttacaggtnc ccgccatcac gcccggttaa ttttgtatt ttagtaaaa acggggtttc 180
 accatgttgg ccangctggt ctggaactcc tgacctcagg tgatctacct gccttggcct 240
 cccaaagtac tgggattaca ggcaggancc accacgccc ganaccangt tcttgacct 300
 agtctgtaat taactgattc gggctaagcc acttantatc tctgggcttt agttataaaa 360
 tgaatnnaca ggactcaagt ttccttctgg ctccnaatgg ctatacttta aatttatattg 420
 gttattccn aatanccaaa naaaaaataa atcttatcat ttctatcatt aaaaaagggt 480
 nnatccttgt nccccttgn 500

<210> 9774

<211> 479

<212> DNA

<213> Homo sapiens

<400> 9774

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agaaatggtc caaatactat cacaaatgga agaaagttca gcttgaggag catccaatca 120
 tgtgaggtaa aagtcttcta gtagaaccag catgatcttc cagaaaatta caaagtaacc 180
 attatctacc ccgtcatctc cttcttgccct ggcatcccca gagctgaaga aagggaagaa 240
 aaaaaatgga tttgtttttt gccatgaaaa atcttaacgt aaagattaat gcatcttgct 300
 gcttaagana aaggtgttac tttcactcgg ggtaaattaa atactaggat tgagactaat 360
 ctgttcacag ccaaataagg gtttactgaa gctccaacgt ttgaataaag accacttatt 420
 gggaagacnc cccnaatnc ntnttatcc tcccctccac naatttttat taagcntcc 479

<210> 9775

<211> 581

<212> DNA

<213> Homo sapiens

<400> 9775

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 aatataccgt ctgctcaagt acccaagata aganttacac agatcagggc anaagaccgg 120
 gaagaatgaa aaaagataaa gggaaggaag tctccnctga agaaaaaag aaaaaaata 180
 aaaataaaaa aaggtgcaaa ttgattacct tagtcctcct ttgtctaccc ctgggctcct 240
 gggttaaaga catgtgtgca gccaaaatat antgtaggg aaaaaaac caacacgtcc 300
 cttcttgten caaaacccaa aggtgagcct caaatgggtc tgtctgtcca aaaggtgctc 360
 cctccangga aanggggcgg aacaggtcna aaacacatct ccaggcacia aagttttttg 420
 gtggctgatg gtgggganac tggtttcccc ccccaaaaag gctgcncnc ccccggtg 480
 gtgggtgctc ccacccccnc cccccctgna ggcaaatttt tttcctggaa accccccctg 540
 ggggcccccg gcggcnggaa aaaaaaatg cnntttgntt c 581

<210> 9776

<211> 483

<212> DNA

<213> Homo sapiens

<400> 9776

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cattagtaac tggctgtgtt ggggagggcc tgaggaaaaa ggcactctcc gcattgtagg 120
agaatacatt gacaagagca tcatgaaggg ccattcagcg tctatcaaaa caacaaatgc 180
atatgccctt agtattctgc tatttcactt ttgtggaatt tttcctacat atataatcac 240
aatcacatga aatgacatgt gtataaagtt attgattgca gcattgttta cagtagcaca 300
gtatcaaaaa taaccaaatt gacaccacta gaaaaaccag ctaaataaac tgttattccc 360
atcatgcaag gagatacttt acagctgtna aaatgaatga agatactggt tgttaaantc 420
ntatgaaaga ttttccnaga atttacattt tgaaataanc caggttccaa gcncaaatgt 480
ttn 483

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<210> 9777

<211> 412

<212> DNA

<213> Homo sapiens

<400> 9777

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ttaaatcata tatggatgat gtcataaata attctaataa gttggtattt tcaacataat 180
cacatttttt aacaactaga tttttgttaa gcttttcagc actattccag aaatacttat 240
agaggaagga caactagtag acaaaactgtc accttatttc ccaaattcac gggttggaan 300
aanaactact tccactgaat gttaatgaaa cattccacna aatcccatna atctttcngg 360
acattcccng gtcnatggtc caagcagatt aaaattactt tccnatnacc cc 412

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<210> 9778

<211> 494

<212> DNA

<213> Homo sapiens

<400> 9778

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agaaaaccca atatgaaatg acaaagagta ctgtactcag aataagaact tcatctatca  180
taaatgtnc aataaatatc agtgaattgt catactcaag actcagattc aggaacttct  240
tcacagggc agcagtaata ttccacaaaa catatttgct catcttcatt tctaatacata  300
tactgtaatg aaaggaagcc tctgttatct gtccgaatag ataccttaca agataggact  360
aatgcctttg tagagggttt cagtaaggaa atcttgtatc tgttgacttg ggtctgaata  420
caatgaaatg ctctccatc aaaatctttn gganatccan gggggaactn cccgcntttc  480
caaatttaan ancc                                     494
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<210> 9779

<211> 528

<212> DNA

<213> Homo sapiens

<400> 9779

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aaaaatccat acaaatgata ttattacta tttcttgttt aagccctcat gtatcttctc   60
tattgtattt ttggattctg taaacaaatt actgtatcat gaccaatact tgctcaagat  120
caacattgaa tcatggattt ggtgtcactg agtgcaagcc atgtgaggtc tacatgtgct  180
gggacatacc attcaccaaa cttctcagct gtttcacgac tgtctctatc aacttctggt  240
tgtctcgatc attcttctctg aactgagcaa atatattggt ctttttgcta gtatccttca  300
tcttctccaa aanantaagg gctgtgtttg gattcacccg aaggtaacta aaantgggct  360
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tgaaggtaa tgaatgctaa ctgcaagggt tcccccggn aaaccnggca caagntccaa  480
actngggaaa atttcnctt taaaactttt aaaaatggcc ngcccant                    528
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<210> 9780

<211> 441

<212> DNA

<213> Homo sapiens

<400> 9780

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aagacgtagt ctcactcttg ctgcctaggc tggagtgcaa tggcacaatc tcagctcact   60
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ttacaggcat gcaccaccac gcctggctaa tttttgtatt ttactggag acgggggttc   180
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ccatctgctg tttttaacta ctagggtttc caatataaca aattcnactg cttttcaaaa   360
tttgantnat aaatacggna ggaaacacia tccctcaggc aaanaggctg aaccctcatt   420
tacgggtccn cncctaacc c                                     441

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<210> 9781

<211> 503

<212> DNA

<213> Homo sapiens

<400> 9781

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ctttgttgga gagtttggca tctgttatga ctctctccaa caaggctgcc anaggttcct   60
ganagccata tgatctttga tattcaaatt cctctggact aatttgacgg caaaatgatg   120
gagcanataa agtgatatcc atatcagctc ctgggtatatt tatctggact cttcgtaaatt   180
ganccacacn ctctctata ggggtctgca aggccaaagg gactttcaaa atttcctggt   240
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ccttgaaca caaaatgcaa cgggaaaatt tctgaaccat catnttcgg gtnccaaanc   360
catcacacag ggggtggcatc tctttgttta agcaaactct tgccatcatc ctcatcaata   420
actgtaactt tctcctatatt tcnngaggtn ngaaaangcn ccaatctgaa atgcttcact   480

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gccactttct ccctctntta naa

503

<210> 9782

<211> 409

<212> DNA

<213> Homo sapiens

<400> 9782

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 cttgaaattt caggggtaaa aagtgggtga ctggaacttc nccttttta accaaacaat 180
 gttnaataa acatctctga atagaaaact gtatctgggt cttttttatg tcaaagttaa 240
 aatactttaa taganaaaat tccatttttc tgcactctatt tagatgatat tacaataaaa 300
 ggcantgtgg attgganaac atagctagtg agaatattan gttnnngtaat ttaaaaaaaaa 360
 attanccttt ccctatgaaa taaaatncat gatccctta attcncct 409

<210> 9783

<211> 599

<212> DNA

<213> Homo sapiens

<400> 9783

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 taaatctact tttagttttt aaagggaatct ccacactgtt ttccatagtg gttgtactag 120
 ttacattcc caccaacagt gtaagagtgt ttcttttcac cacatccatg ccaacatcta 180
 ttattttttt gttatggcca ttcttgcagg agtaagggtg tatcgcagtg tggttttgat 240
 ttgcatttcc ctganaatta gtgatgttga acatttttcc atatgctcgt tggtcatttg 300
 tgtatctcct tgtgagaatt gtctattcat gtccttagcc cattttttga tgggatcgtt 360
 tgttttttcc ttgctgattt atttgcatac cttgtagatt ctggatatta gtcctttgtc 420

agatgtatan attgtgaaan atttntccc actctgtggg gttgtctgtt aactctgccg 480
aattattcct ttttgggtgca aaacctttta anttnaatta antnccatt aancaattac 540
cctgtccttg ttgcattgct ttggggtcnt gggcccaaaa tcttgcccaa ccaaattnt 599

<210> 9784

<211> 547

<212> DNA

<213> Homo sapiens

<400> 9784

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caaagaactt taaatctaaa ttactttttt aganactggg gtaagtttgc atagtgaat 120
tatgagcacc ttttcaattc tgttactaa atttcatctc tctcttcata tagtggtatt 180
tcaaaaggat tcagttttca tgatacagg gtaagactcc tttcaaactg ttttaaaata 240
caacgtataa aaaaatgtgg actgaagcct ttagattgaa cttaaagttc tactgaatgt 300
caaaacaagc ctaagttgaa tataantaat tcattgcctc aaaatatagt cttaaatttta 360
aaagaatgtt gattctgana cattacatgc agcaggggaa aaaaactgca aatgcccaaa 420
ataacatgat atctatttgg tgttccacac tcctgggtgg taattcnaaa nggggaaact 480
tggtgatttc tgctttgtcg gcatactat nggtncgtnt ccnatntta ctttgactta 540
ttttaaa 547

<210> 9785

<211> 622

<212> DNA

<213> Homo sapiens

<400> 9785

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aatccttcat accatacaaa gcaaatgaga aaataatgtc aattcatttc taccceaaac 120

ctagtcttta ggagaaaatt cgcaggaaga gaggtatgag tagtttcaca gaatacattt 180
 tcaagaattt tttaaaaact gaaactccaa tgcccagaac aagataaaca gtatccttag 240
 cagttagcac tgtaataaaa tctcagatac acaaaaatca agttccagag ggcaaagcat 300
 ttaattacag tccacaacga gcactgttgt gattcatata aaacatagtt ctctccaatt 360
 tctacacaaa ccgctctttt aatttattta attagatgaa caatgaaaat cgttttcctt 420
 ttcagcattt atctaagatg ttagaaataa caaagtagtt gcaataaagt gtttgaaata 480
 ttttaataaga atgttcgaac cttataccaa attaatgtgt gaaaaaaga aaaaaanaatt 540
 cctcctccaa ccaaccntt ttcctaaaat naaaatacnt tcccangga aaaaatttct 600
 ngggngaatt acacccccaa cc 622

<210> 9786

<211> 560

<212> DNA

<213> Homo sapiens

<400> 9786

gcctgcagat tcttanagaa cgtgggtaaa ctgtgctaaa agcttcctaa tacattaaga 60
 aagtttgatg aaaggtacta aaaccagaaa cttttatttt aggaagtaaa ctgttatcaa 120
 caagaaaatt ccctgtattt ccagggataa taattcctca tctgcttatt tgaccctcac 180
 tttcctttta gactttatat ctttccgatt gaatgtatac atttttaact cagaaaaata 240
 atccacatga cttttaaggt gtatcatcatg cccatctttc accattgaaa attaaacaag 300
 taaagggaag tccaagtaca aagctaccgc tatgttttgc gananatttg aaacaatcta 360
 ttacacatg aaatattatt aacatcaaaa aatgttttgg ctcanatgt tgtttaaaat 420
 gattctctca gttccaacca atcttctatt cctagcgggc caattgccct accaaaaagg 480
 gactgcatgn tgtctacaaa ggnntttcct cccctttctt aaaacacact tccnccttg 540
 aaaacncctg nactanaacc 560

<210> 9787

<211> 339

<212> DNA

<213> Homo sapiens

<400> 9787

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atatatacat tagaattttt tccttttatt cttgttcaca tcttccaaag ctgancttcg   60
tttcnaaagg aaagatacca naagcangaa gaaggtcctt gggaaggga gttggaatctc  120
cctcctctag ccccttggct acctcttaac aggccttcaaa gtcagaatac agccatcagc  180
tgagancagt tcattttggc aacttgggag gccggctgtg cacaccggac ctctctagtg  240
ggggatcagg tcctctgctc tccantgggg cctggaacag ctccngtgag atgccccncc  300
tgtnggctgg gggtnanca canaacctca gtcceccca                               339

```

<210> 9788

<211> 614

<212> DNA

<213> Homo sapiens

<400> 9788

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aaaatgtgct cagtgttaac tttattgata ataaccaaaa acaaacctaa tattttatga   60
ttttaaaatt atttttaagc acaaaatana cccatgttgg ggatgaataa catgtctgag  120
tttgtaatt ttgtctgcta cttttcccta tatttccttg tttccttcat cctaaaattt  180
ttaaaaatga aaactttaat cattgttgca tgtttaaaact attgaatatt ttcttttggt  240
aactgaagta aaaggaaaca ttcttgtaga attatggaaa ctaataatgc agtaggactt  300
aaaattgaat gttaggaggt tcttcgtttt aagaatcttc ccgtgggaga agtttccatc  360
gaactgttat atcaatttta tcatcaacat ttcccagcgc ctgctcttta cagagttcta  420
agaacacctg ctccaaggta gcctgagaga ggctgtattc ctccangttg aaggctctgtt  480
tactgcctt taatttgaaa aaggetgana cagaagggtg acatcccca caggtaactt  540
acatgccata aagaagaata tcttcccgcc aaccaccgtg ggaaaacctc caaattccgt  600
ntgnaaactn cccc                                                         614

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<210> 9789

<211> 421

<212> DNA

<213> Homo sapiens

<400> 9789

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atctttaaaa acagatttaa tgtgttaaaa aaaaatagaa tcaagtgggtg tgcttcgcca 60
ctgagatgat tgtgctgtgg ctccggggcc acatagcacc agggctcgat agcagagagg 120
agtttcggcc ctctgccagt gcatgtgact ggtgcagggg cggaggccca gccgcacggg 180
ggccagagca ggaacacagc cacctgttcc aacaggcgct gtgccttgta tgccccgtac 240
atgtgcctgc cctgagagga gcatgggcca ggcctctctt ccagctgtgc ccccagggtg 300
ccagtgaggc agggcgacct ctcaccaaca gagctcctcc aagccatgct ggatttggat 360
tcctggaacc ccctgtaccc atgcggtggg ccacccccag ggggagggga nganatnnnn 420
n 421
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<210> 9790

<211> 573

<212> DNA

<213> Homo sapiens

<400> 9790

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cgggcactga aatcttttat tcgttaattt agtttctggc aagtgtttcc tcaaaatcat 60
caagtnnttc cttgaacgta aaaccacaca ttaaaaatgt tattccactg aaaatgactc 120
ctatgcaa atcgacatgt gatgtgtgtc caaatgccag agcatittga gaaaagaatc 180
ctctgcaa ataaaattaagg taaaagctga gtcagggatg atccgattcc caccacagga 240
aatgacctgg agctgcacca actcagcgag gttggagctg aaaccctgag ttaataatga 300
tcaaaaggga caaaacagga aggcctgggg accgtggaca gggnaagtgc gcanccctga 360
ttgccantgg gcggaacaag gtcaggctcg gggaaacaag aagggttggt gggcgttggc 420
cctaaacana acagcctggc cnaagctggg ggccactgtt cctgaagcca aaagaaccag 480
```

gttggttggg ggccntttgg aaaggaataa aaaggcctaa aaaaaacccn ctgnaaagtt 540
ccttttaag cctnttcaan cnaaaaatcc ntt 573

<210> 9791

<211> 434

<212> DNA

<213> Homo sapiens

<400> 9791

caaataatta ttggatcatcg gtcaagcana gtcttctgag gtctctatct taaaacagct 60
gcagggataa gggacatcac tacctactgt ctttggatta catgtgattc tgaaaactat 120
tcaatcctga aatgtaatca aatggccaaa tacaacccca atttaccact gattttttacg 180
taaagttgag tctttgatca caatgctgtt ccttaagaaa tgatcaataa ctgctgagag 240
atggttgaaa aatgcctttt cccacattt tggtttgtt gttgtttgct gactttactt 300
ggcaagagtt attgggcctc aaatcagata tttacaactg taanacaact gggaancagg 360
gaaaagggaa aaggcaaggg gggtnggaaa aaggactacn aaaaaaatn ttttcttttc 420
aaangttaaa acna 434

<210> 9792

<211> 454

<212> DNA

<213> Homo sapiens

<400> 9792

ccanaaactt gacacaatag tactttattt ttcacttata caactgcctc gtacaaatac 60
aantgggant tgcaaatgac anaggtttgg ctctgcacag tttttcana aatccaggct 120
tctggtgatt tactctgtgt aacacatagc ttcccaagtc acatttaatg tcaacatgaa 180
aggctgcaca tgggagggtt ttatgancca ggtataaaaa ttgcacatnt cacttccact 240
cacattggaa ntaatggcca aaatttaata atacccnct cnaaaaaggc tggaaaattg 300

cctgggctat gtnttcagga caaaaggaat cnggtttgat gaaaaataac cgggtgtcaac 360
cataancact attatnttct aggcactttg ctgggggatt cantgatgan caaaaaacat 420
ccttgatgaa caaaaatgac nttcntanta aaca 454

<210> 9793

<211> 318

<212> DNA

<213> Homo sapiens

<400> 9793

acagactatt tgtttattat gaaactaact ggtaaagcag agtaaattccc attctatatt 60
atagcactac aaacatcctt agtcattcct tcatttggtc attcattcat tcatgcattc 120
agtgagtatt tcttaagctc ctacagtgtg ccaggaggca ctctgttcat tgtggcatta 180
caaagataaa gattaaggna cgtactctgc cctcaaggag ctcccaatct aattgtgcan 240
anagatgtga aaatgaagca tgaaactcca tcgtgaggan cgccganaac aaaagtctgc 300
tcgaagtgan gcanaant 318

<210> 9794

<211> 575

<212> DNA

<213> Homo sapiens

<400> 9794

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tcaagtgata tccccggctc tgccctccaa agtgctanaa tttcaggcgt gagcccccg 120
gcccagtcag cattggcttt cacatacatt cacttgcttt atttcttta cacctgtgtc 180
atatattaaa aaactacaca ttaganaatt taaanattt gccaaagttg ctcanaaagt 240
gatctgatgc taagatgggtg tccttccact tgtactaccc ctatagccta naagtatacc 300
attaatccat gtcctccttt ataacttgga gtcacacatg gatcatgctg tttcagttat 360

tatccatact taaaccatct ttgtaagtat ctgatgtccc aaccatgtct tatgtagaaa 180
 gtataatcgt ttcaaatgtt tcacttgcag gtttaatttc tcattttcaa tttttatgaa 240
 ctgtaatgca atttcaaate ctattatacc tagtgtttat actgcaacag cagcaaatect 300
 cacatgtgta atcaaatgtg gaactggggc acagcttcta gctgtagaca gaaattatac 360
 actgcattca gtccaggaga gtacattaca ttaaccagag cgtagagttt agtacactta 420
 ttgcagggtg gtattttctt ccctctgac tgaatcagct gagctgctga gcagacatat 480
 tactggtgtg gatagtaana ctgctgtggg ggctgangga angggtatna agctgctggg 540
 gtccnggtnt ganc 555

<210> 9797

<211> 434

<212> DNA

<213> Homo sapiens

<400> 9797

ctcaagctgg tctcaactct tggcttcaag caatcctcct acctcggcct cccaaagtgc 60
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 gtatatactg tgattttact ttcctgaagg ggcaaagaat gaanaattaa cagcaatcag 180
 caagaaactg gtttctctct tactgacaac tctctactc caanacagcc ttccatggtt 240
 gtaactaatg ctgttagtca atattacagt ttgccccctt ctggggatgt gacaggattg 300
 caatttctgt cctctctgtg gttaaaaagg ggttctgtta caattcctgg ccatacanta 360
 tgantaatgt gccaaaaaat gggtaantcc attacttgg gatccnnaat gtggagaagt 420
 tatanttatg ttna 434

<210> 9798

<211> 593

<212> DNA

<213> Homo sapiens

<400> 9798

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actaatgatt tttttttcac gtagcttttag antcaaaacta ttcacccaac agcaaggnta	120
cttgtgggaa cagaaaggaa actataatac ttccctttca tctcctcaac cactcatana	180
tggcctggct attgagtcaa attattttatt caggatgtca tcaattctct gtanatgata	240
tgccaaggca aacagcanaa atcacttcta aattctgaca gaantccaga ttttggcctt	300
cacatatgcc agtgctctcc aagtaaaaaat gggctctaca ctgggctaga cactcnccag	360
aangggatgc ccacgccana canctgctcc acttgcatgc cttcctctgg cttcttacac	420
ccattacant gaaaanggtg cgggacccat acaaccagn caggaagaat gacaggcttt	480
gcaaaccgt ggtcaaaaata aaancnctc cacancgggg caaanatggc cttgacccaa	540
acctgggggg ggctgcagct ntncattaaa angttttggc ccaaactg gcc	593

<210> 9799

<211> 588

<212> DNA

<213> Homo sapiens

<400> 9799

catcactatc atatatatta tgttgtctta ccattcaaac tgttggcact atacctaac	60
cacagtaaac aggattatca ttcccataat atgatctttc ttatgaanaa tttggtaaca	120
gtattctatt gtagttttca tganaaggct tttcctattc accaaattga ctcggttcct	180
tgtcagtatg aataatgacc caaggtttac tggggatggg gacaatgtag gaagggtccc	240
tcgcctcatt cagtgccttc tcagaggccc tctccanaac agccatgtgt gacattctga	300
tgtggtcatt tctatttaca ataataatac tatttttctg ctgcatgcgt ncaacantgt	360
tcaatccaga acccaccccc caggggggtt tntcacact gtttctctca accgtggctg	420
ctctgataaa cactgaaaca ctgatttctg aacaaaacct ttccccaaa atccccccct	480
tgttngggtt tgtcnccatt attnttgtc cnnattttat ccaattggaa cctttgctaa	540
aggcctcccc cncctcccac cccctttggg gtcncccc ttttnaat	588

<210> 9800

<211> 416

<212> DNA

<213> Homo sapiens

<400> 9800

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ctttctctgc atattattta tctattgctg cataacaagt tagaccaaaa ctgagcaact   60
taaaacaaca aacatcgatt atctcacaga ntctctgctt ctaggttcac taatgtggct   120
gtgggcagga nacttcattt tttaccacgt aagtctcttt ataggcctgc tcatagcatg   180
gcagctagct tccccagag cgagtgagcc aagatanatt gggggcggtg ggtggcanaa   240
aaanagggct caagtaaaan ctgcagtgtc tttataaacc taatcttgga agtggcatgc   300
catcatttct gccatattct attggtcaca aanacaactt tggtagattg tgggagggga   360
cacacacaga atgtntacac caaganacan ggatcntttt ancantgta ttattt       416

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<210> 9801

<211> 402

<212> DNA

<213> Homo sapiens

<400> 9801

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gaagctttta aacaatgagc ttactgtgag caaacagaag caaggactcn aagagataat   60
tagctcatgc atctggtgct ggctaataat tttcacatga atgaanaaac cactctatgt   120
taactgtatt tttttttaa aaatagtttg aaatggtaat aaaatgcaat tttcanaanc   180
atcttggtga tcgagtaaaa ctgcttaatt taaaaataa ttcagttact tccacctggc   240
ctggggtgga taacatgtnt caaaaacttc cntcccacta aattctggca aatggattga   300
tctttcncaa tatatatata tatatatata ttttncncca tttcctcctn atggaanccc   360
naaaaccagg aagaaccncc cgttttgaaa aaaaaaatgt tt                       402

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<210> 9802

<211> 502

<212> DNA

<213> Homo sapiens

<400> 9802

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ggtatcagaa cataactatt ttattacaaa acttaacatt atttacaaaa tgaaaaaata   60
atcnaatgac tattgcaggn caaagttaaa ggtttttcac tcnatgattg aagaaaaaatt  120
aagcaatatt tccatgcact cacaccagat catttctgaa atatgcaaac tcttaaaatt  180
catgttagta aaactttaat gtattcataa tacttgctat gtttattaga agatgggtcaa  240
aaaaaatcca tggttctgta caataatatt aacagtttgt tcattttcct ttaatatatt  300
ttggcttcca tgaacactcg tagattgaac attctgcaag taagaattat aatagtacct  360
ctgtcccttg ctgaattcnt cnccacaaga aaaacacaaa tagtttaatg cttttgcact  420
aaactgaata attattactc ccaaattntt ttaactgaan ccctccttgn tantcaatgg  480
ntggattctt tnaaacnntt aa                                           502

```

<210> 9803

<211> 608

<212> DNA

<213> Homo sapiens

<400> 9803

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gggagtatta ttatttccaa taaacaaaaa tgttttatatt ccnttcaat ggtatatatc   60
ttaaattgct ggaacataca agtatnaaaa taagattatt ttagaaaact ccagttttga  120
agggcncgac aatagttcag acatttgtca gtagctatga agccactttt aacatggaat  180
gaatatccct ttactccaac tcttggtctt attacatttt taaatcaaata cagcgtgctg  240
gaaatagaga aaaattccca aagggaata taaaataatt ttaagcattt tcagaaatac  300
aagttacact taagaaactt gtattaaagg atgttaatct gagataaaca gaaaacaaac  360
gttttgcaaa gcactacttt ttgcatctgt ttgaggatac acagtttgca gctctcctgc  420
cagaagcaaa atactgactc tagcacagca gaaaaggctc nactttaaga aaaaaatgan  480

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tggtcgcttt ccatgactga acataacata ttaaacttta agaattttta caatgccaat 540
taccaccata gtanaaaata ctctttttan aatacaaaan tcnctttnt ttnccttaa 600
aaatctcc 608

<210> 9804

<211> 588

<212> DNA

<213> Homo sapiens

<400> 9804

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ctcagtcctc caggcccaag cgatcctccc gcctcagcct ccagagcagc cgggactatc 120
agcatatgcc accacacccg gctaattttc ttgattttct tttcttcctt tttttttttt 180
tagtananat ganacctcac cctgttgccc aggctgggcc cgaactcctg agctcaagtg 240
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tacttggtat gacttcagtc ttcttaaact tgtaggact tgttcgtgac tgttatgggt 420
tgaatgtttg tcccctccta aacttatatg ttggagattt aatcaccaat gcaacagttt 480
tggggaaggg angcctaata ggaagtgtta ggtcatgaag ggctttaacc ttggtgantg 540
gaataatgcc gcnccttgaa aaaancnaat tggnaatggg gtccncc 588

<210> 9805

<211> 542

<212> DNA

<213> Homo sapiens

<400> 9805

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accacagaat ctgaggtttc aaagatctgt ttgaaatata ttcatttcat taatttgaaa 120

tttggggcag gatatgatct taagantcta aacattcaag anacgagggc aagaaagcca 180
 gtcacatgtn gaataccaag tccaaggcac gcgtcctgcg gtcaggacag tgttctaggt 240
 gtgaactcac ttaccgtggg gcctatgaan caggagtgtg tggccttcna anttcgaatg 300
 tgttcatgtg ggtgtgtagc gtgtgaatcg gacatggaaa aaaaaaatc ccctatctgc 360
 ccagtcaaaa ataaatgtnc acctgaaaat cagatgcaac actaacttgc aaagattccc 420
 acaacataaa aaaaaaatga tgctttcatg ttgctgggcc gtggacaatg tggaaaaact 480
 gaagcgtttn cngcgctgtt gtcaaaacaa ctccntnca aacanggggt ngaatttngc 540
 tt 542

<210> 9806

<211> 577

<212> DNA

<213> Homo sapiens

<400> 9806

ganacagggt ctactctat caccanact ggattgcagt agtcaatca cggtcactg 60
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 tataggcacc catcacaaa cccaactaat gtggtttatt tttgtanaa atggggtttc 180
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 cccaagggtga taacactang anggtggtaa gtgagcctgt aagcctttgg gaagtgatta 420
 anggggaagg gcacctgaa anggattaat gcccttataa taaaagcctc anaaaactcc 480
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 anaccaaate tnceggcacc ttgatnttgg acttnca 577

<210> 9807

<211> 610

<212> DNA

<213> Homo sapiens

<400> 9807

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gtttgcttta ggcttacact gatctttctt ctctagtttc ctaagatgga aacttagatt 60
atgaatttta aatcttttta atctcttcta atataggcat tcaatattat aatttatctc 120
caaccactac tttcactgct tcctataaat ttgatacat tgtattttca tttttattta 180
gttcaaaaca ttttaaaatt tctgttcaga cttcttcttt gacccatctg gtatctanaa 240
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tgtttaattt cctctgagag cacactttat atggtttgta ttctttgaaa ttgtaagggt 360
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gcaacctctg tgggtggaac caggatgaaa ntatatgcat ctgtgaaaaa ctggccttcc 480
atctgttttc tgatgcaacc aaaatgcttc agggctcgtc ttatctggaa ggttgaatgg 540
ctacaaaact ttanggggct ccngttaaaa ctcaaactga aaaatcctgg tccccgntcn 600
gnantctttt 610

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<210> 9808

<211> 583

<212> DNA

<213> Homo sapiens

<400> 9808

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agtttgtttt cagtanagac aaggtctcac tatgccgccc aggcaagtct cgaactgctg 60
ggttcaagta atttaccac cttggcctcc caaagtgctg ggattacagg catgagccat 120
cacacctggc caatttttct aaaagtctga aattaagtca aaattttgaa aaagttatag 180
caattatggc aatctcaatt atgggtaaat gtgtgtcaca ttatctcctt tacattttta 240
gtatttcata attaaaaaaa aaaagcagan aaaattgttt atcagaggaa acctcanaag 300
anatgaggca gtcgtcagca agtanaangc tccctttcag gaaactgaaa ccgggtgcc 360
agtggctgca naacgggtga nanttagcc cccacctctc cactggaacc tantgacccc 420
atgcanataa caacctgccc aactcttcac cctgacctgg catcatattt atctataact 480

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ggcagttctt ctctgacggg ataaattaat aaacnttaaa acncctctaa aattttttac 540
ctgttggttcn cgccgggtnt gccnntnttc actccccitt tgt 583

<210> 9809

<211> 602

<212> DNA

<213> Homo sapiens

<400> 9809

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gcaaccttcg cctcccaggc tcaagtatt ctctgcctc agcctccgag tagctgggat 120
tacaggcagc tgccaccacg cccagctaatt tttgtactt ttagtaaagg cagggtttca 180
ccatgttgcc caggctggc ttgaactctt gacctcaggc gatccaccgc cctcagcccc 240
ccaaagtatt gggattacag gcatgagcca ctgcaccgcg cctaggcata tttatttcta 300
tgtatagaaa gccttcctta attttcccc caaaganaaa ttattgttta gtattttgaa 360
tgaagancct agtttagcaa tttaaatcaa gaaattatac aaattgttcc atggagatta 420
aaaagaaaaa ggagctcagc ttncctaag tgacataagc ccaatataaa anatatgttg 480
gatatttga anccactcc ctttanaatc cctcctctt ttaaaaacat aatgtttaat 540
tccaacctg aaaccnccat tatgattnaa attaactttg aaaaatnatt naactttgaa 600
ac 602

<210> 9810

<211> 605

<212> DNA

<213> Homo sapiens

<400> 9810

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ggccactaac ttcccaagga ggcagtgcc aaaagccctg tggtttttg atccgttgta 180
 cttcgatagc tcctcctttc cctagatcca gcagaactct agacatgtna gacatagttc 240
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 gtcagactta aggacaacta gacagagctc ccattttctg tcatctgggc aggaaccaat 360
 ctctgttgt ataaaatgac cttctggtac tttctggaat cttgcttcct catctgtaa 420
 gtgaggctaa taccgcttac tcatagtttg gttgtgaaga tgaactaaga acatgacata 480
 ttaccgtttt aaattgtnc aacnacctgc ttttaacaaa tgccgcaaat ctccggtttc 540
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 aaaaa 605

<210> 9811

<211> 609

<212> DNA

<213> Homo sapiens

<400> 9811

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 ttaaaaaaaaa caatggtgaa tacaaggtat catcatttta agggtaaaga nataaagcaa 180
 gtacatatat aaatccactg gaaaagctaa gtttgagact gatttcctct cttgaattgt 240
 aaaatttcag taatacacag tcactatcta ctgctggaat aatgcctgag caatttaggt 300
 aaagatacaa acaataacaa aaaccctgcc caaatattca aacttgagaa attctagtta 360
 aaataataga aaaatataaa atttatcctt ccaaaaaaag gtatctaaga caaaggtata 420
 nataccccat gtaaattatc acaagtcata tgtgaatcaa cttttctgt attccttaaa 480
 gttgttcaat cgactgatga aaaaacaagc tcntattcaa aaaaactttc aaaacacacc 540
 tacnantaac ttattaatgc cgaaatttnt tttaaaaaac agctattccc tganttcctt 600
 aaggaaaat 609

<210> 9812

<211> 468

<212> DNA

<213> Homo sapiens

<400> 9812

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gtttngtan aaatanggtt tcacatgttg aacangctgg tctcgaactc ccggnctcaa   60
gtgatctgcc tgccttggca tcccaaagtg ctgggattac aggtgtgagc cacgcacccg   120
gntggatttc aatatttggt agccctataa gaaaactgtc tttcacctcc tccaacaggg   180
aaaggagac aganaaatct gaggaatgct gataccagan aaagtcctcc aggggagcan   240
aagcagatgg agggctgctt ggtcacaaca tantctcgac cattctgaca cacggatgac   300
ttgcgtnncc gcagaaactg ttctttgtag cccaaaatgc agccatcttc ataatcttca   360
nggtctgtgg agtgtgcca ccatatggta tagtccttct cttccctaaa ngananacac   420
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<210> 9813

<211> 576

<212> DNA

<213> Homo sapiens

<400> 9813

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gaggtttcac acaaacagca tttattatta atttgcttcc atganaaaac accgttacat   60
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ggacattana cttcctatgg actctcctaa gcctcctaag gcagttggnt gatggctctc   180
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ccatgacagc atgagctcag tgaggacagg gacttttgtg atcttggttg caccacagtg   300
cctggaacag gctgcanact cctgtanatg tgagacttct cagggccctc cacacccttg   360
gtgttttttt tttctcccc natgttgaa gttttttgct gaaganagtg tttcacgtcc   420
tgcttatatt tttatttgaa gtgtctctga tatanttatt attatcattt tcnaaatntg   480
gccccgatna ttaatccgga aaacaaaaac ttaaaatttc ctacccttac aattccattc   540

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aatntanttn cctttttgaa cccgtccccc ctgttt

576

<210> 9814

<211> 532

<212> DNA

<213> Homo sapiens

<400> 9814

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acatgaattt aaggncacgc atcattgcaa ttgtcactc ttcacccca tctcatcat 180
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ctatgacntc cctaattctc tccccgtctc tctttaaata ccttgtttgg ccagtttttt 480
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<210> 9815

<211> 537

<212> DNA

<213> Homo sapiens

<400> 9815

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ttagtcatca aaatacaagg gtttccctgg acacttggta accaagcagg ttttaaagtg 180
cactattgtg tccaaacact aggaccgtc agcananctc tgaaaagggc tgggttcagt 240
tccatcctcc gtgctactgt ctatgtcctg ctccattgct gtctcctcat catccanctg 300

ttgactantg aanttgttta gctcaagaac ccactgggct cccaccaca ttgganctgg 360
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 caccttcctt tggccaaatt ctnaataccc tgaactggcc tttccangcc cgcgggtgga 480
 atcaattttc cctgntcttn ggggaaaaac ccccnntgga tggacnccaa aaaggaa 537

<210> 9816

<211> 573

<212> DNA

<213> Homo sapiens

<400> 9816

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 tattatttta ataaatgana ctgaacgtcc tcttataagg ctactccct tgttccctact 180
 acatttgctc tgtttaagta tctctttaaa ttcttcagtt aanatcatcc cttttatcag 240
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 actataatat ttgcatacgt atgtgtatat atgtatttgc ttttttaaaa aggtaaaaat 360
 gctcttctca ctctttgtcg atatangcac ccangttacg ttatttagaa attaaataaa 420
 nggcacaata anttccccag ggaagaatcn ttaaaaanaa aaaanccttc ctccccctaa 480
 tatcacataa cttggcctta ttggcntgcc cacctaataaa aaaaaggttt gncctatngt 540
 taaangaaaa aaccaacctt ncccncttng ggt 573

<210> 9817

<211> 575

<212> DNA

<213> Homo sapiens

<400> 9817

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 tgtgggatca atggtgatat cctctttatc attttttatt gtgtctattt gattcgtgtc 420
 tcctttcttg tttatcaatc tggctagtgg tctatctatt ttgttgatct ttnccaaaaa 480
 ccactcccgg aatccttgaa tttttgaaag ggtttccacc cccccccncc nccattcngc 540
 ccgaatctan ntaattcctg tctccgccan ctttn 575

<210> 9818

<211> 571

<212> DNA

<213> Homo sapiens

<400> 9818

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 gccagtggan tctctccaag tgacctctca gcaattgcaa ctaccataaa accaggactt 180
 gctttaagcc tgggagtggt cttatcattt agcttacagc tggtaggaca gttaaaaaag 240
 ccattcattc ccattcatca tatggaggct catgcactta ctattagggtt gaccaataaa 300
 gtagaatttc cttttttagt tcttttgatt tctggaggtc actgtctgtt ggcataggtt 360
 caaggagttt cagattttct gcttcttgga aagtcttttg acatagcacc angtgacatg 420
 cttgacaagg taattaagaa ttaaattctc ccaccccttt tgttatgttg tccattccac 480
 taanttacaa taaaatttct nccccatccc ctaatnttct naatttttct tataactgaa 540
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<210> 9819

<211> 586

<212> DNA

<213> Homo sapiens

<400> 9819

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ctggggtcct aacagttgca aaacaagtct acaccattcc ttagtatgaa aaagcaacca 180
taaaaaaatg gagcatcaaa atattttatt tcaaatttat tttatgccag atccaagctg 240
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tttatgagaa acttgttgta atgagtctgt accactttat ttgacattta ctaaagctgt 360
ataaaagcca tgcacagttt atttacagta ttgtacatta aatgataatg tttgaagatc 420
acacaaagat ttcacaaaac tataactaat acagaaagat gtgtgaaaac attaaggggc 480
ttccaaantt taaggttgga aatttggcna aaatatting gcttataatn tttgggcanc 540
cctaaccgga aataattgac aaaacctgcc naaaaatacc ctccn 586

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<210> 9820

<211> 569

<212> DNA

<213> Homo sapiens

<400> 9820

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anagggattg ctgatctgct aagagaaata attaaaaaaa aaaaaaaca aaaaaaagga 180
caaccataca ttttggtagt cttttaaaaa aagctactac aaagatatca ataaccatcc 240
aaaaatcact taaaatttaa tatcccttaa ttccaaana cactttgtga tctgactgtt 300
cttgaaggaa agcctanaac tgaaaactac taaaacttgg ctctctcta ggaaatgtgg 360
aaacaggttt tctgcaaagg aaaaacttga caagggaatg ctacaaaata ccantcccct 420
ctttaaaaac tctcccacc tctcctgctc catttnatgg aatgggcagg ctgattcaa 480

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aaaggccctt cccaaggaac tgtttaaatc ccncnaaaaa tccctttcca anggattcnc 540
tttgaattta aaaaaacttc aanntttnt 569

<210> 9821

<211> 575

<212> DNA

<213> Homo sapiens

<400> 9821

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taaaacaaat aaatgtccca agatctctgt tagtgatcca aactaaggag aaattagtaa 120
aattaattat aaatgaacaa tttcagcata taaaccaaca agtcttttct agatttttaa 180
cactgtgacc caattgcatt attttccaag ttagaatgac taataatcaa tgaatgtaaa 240
agcaataatt aatacagatg acattctact tttccacagt aaagaaataa acaatctaata 300
atttttataa atcccathtt ataccacaaa ataaccttta ctaagcaaat ttttttaaaa 360
tctcaggaaa ggaaatgtaa aatccttatt tgagtataag aaaatgctat aaagcaatga 420
gttntcaaaa tacagaagaa gtattctaaa acaaatgaaa aaccnagatg atgaaatagt 480
gacactactc naatgttttc ananactgaa atgccagggg aaannaactg aattattcct 540
taagccgtgg aaaattttac tttcaaatg canaa 575

<210> 9822

<211> 458

<212> DNA

<213> Homo sapiens

<400> 9822

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acattcagtc tgcaacagcc ccaagaagca agggcaaagc caggtgctgg ggggcctggg 180

tcctcccnna nccctgaaag tggagtaaag atgtttggcc caaaaaaggc tggggtgcaa 240
agccagggtca ggggaaagca nantccgctg ggccttgtag gggggtactg gtgccaggct 300
tctctgggac acccccaccg aacangcaca ggggccacgg ggcacaaacc cactgaaagt 360
nccgtctcca ccaccanana gctttattta caantnaaca cactggtctc tgtnaactgg 420
aatcctgaag catcccacct cnaaaactna aaaaaagt 458

<210> 9823

<211> 505

<212> DNA

<213> Homo sapiens

<400> 9823

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tccaaacttg ttgtgttaca ttattaaatt aaatacattt ttccttttga agagcttcag 120
tagtctgaaa taacaagtga agaaatttgg aatcaaagaa acacaagagc taatcatata 180
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atgatgttag atttctgata gaaatctcta aaatactcct tttcacaggg cttatttgct 420
tcntgtgttc tttcntattt tgangaaan attctaatta ccttttcnta attttaattc 480
natatgaatc cccccgaaga naagg 505

<210> 9824

<211> 538

<212> DNA

<213> Homo sapiens

<400> 9824

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 ctcttccttc ttccgcccgt ggggcctcac cacctcttcc tcctcaatca cccgggtctgc 180
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 caaatccatt cactatcctg cactgggtcca ttcatgagac tttcccagtg ctggagtgag 420
 atgtacttct gcaggtactg ttcccgttaag anaccagca tgggtgcactc caaggtcttg 480
 gtccctcataa accctgggtct naancctcca ctntttntta aaaaccntt tggcctcn 538

<210> 9825

<211> 557

<212> DNA

<213> Homo sapiens

<400> 9825

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 tagatataga aagcagggca agtagtgtaa aacctccaca ttttctaggc ccttcttcat 120
 atagcagttt gattatactt caatttggtg ttaagaggac aataatacaa agtaaattgtc 180
 cacaaggac caaaacacca aattttccat gtccaacaac tctctataat taatctacta 240
 tgtagctagt gtccagcca aatgttcagt tcttaacatt cgccaagaag gaatgggaag 300
 aaacagatga gtgacttcag ataggagta cactttctct tcctagtctc catcgaacaa 360
 tctcactttt ttaacagaga atccccca gctacatcca agttaagagc aaaatgctta 420
 cacaaaacca aaagacaaat tactgtaata ttatagttat catttctatt ccttaacata 480
 aataatcnaa aagtgactgt ntanantat taaatgcaat cntcctntt tctgcccgtt 540
 aaaaaatgcg ccttaac 557

<210> 9826

<211> 546

<212> DNA

<213> Homo sapiens

<400> 9826

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cagcattttc ttaatccttt tccaattang aagcaaaggt ttaaacctct agtttgtaaa 180
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gttatttttc tcctcaccac cccccaacaa ttttactaca ataatttcca gacatacana 300
aaagttgaac aanttgaaca atgaacattc acatgcccac catctagttt ctataactaa 360
tattttgccg tatttgcttt atcagatata tatccacctata aaacgtaat ttttgatat 420
attacanagg gaagttacan acatcactta ngtttttaaa aaaactanaa aggcaattat 480
tttctgttat gttggctaag anaatttaaa ataattaatg antaacnttg tntccaagtt 540
ganatc 546
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<210> 9827

<211> 448

<212> DNA

<213> Homo sapiens

<400> 9827

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ccgttccctc tcagagcgct tacgtccacg gggacggggg agagaagtcg cccaatcacg 360
ccacgagcgt angcctccan ggatgcggct cgcgcgtagg cttgagggta tangtgcgca 420
ngcgcgggca ntgcgcgcgg aangcntc 448
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<210> 9828

<211> 481

<212> DNA

<213> Homo sapiens

<400> 9828

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ctcacacctg tncatagaca gcaccatcca ctgattgtcg ctgcagtcca cggcgttact   180
aagcctgcgc cacccacgtg ctgccccagn aggcgctacc aggcctcttcg ggccacaggc   240
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cattctgata atactgggat catgttgtan gtcccgtcc tgttgctgaa gaaaacanct   420
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t                                                                                   481
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<210> 9829

<211> 534

<212> DNA

<213> Homo sapiens

<400> 9829

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ccaaattaag ctctgaaaca actgggagac aggccctgcct aggtgatcag gancatccan   120
gcagcaggga tgggaagcag aaganatgca ttctggatag ggacctcacc ccagagcctc   180
agtctgtaca tacntgtgac tattcaggga ccgggagttg anaaccagaa accaccaat   240
cctagtgttg ccctgggttg gaggcagana aagcagcagc acgtgaggtc aaggacatta   300
ccaagtctga ccttggcatt tgttgctgc tctcatcccc aacagtccat aaataagtta   360
tccancacat ctcanggtg gangcggggg gaacaagcca actagccata ncctctggaa   420
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aaaagggcag gccacctggc actggggcag actacacana atgcatctga ctcctgcttc 480
cgncctctgcn aaactccccg gntnggcgtc caaatttngt cccnccccg cctt 534

<210> 9830

<211> 537

<212> DNA

<213> Homo sapiens

<400> 9830

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gcagcgtacc ttccaagtc acaaagcagt tcatcccgcc ctcaaggagc cgacagggca 180
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ctgaaccagg ctcacatccc agggatgggt ccaaaactga tgacggtgcc tgggcaactc 420
gctccccaca agggccatct cctgctctg tggatgttat cttgcancgt tggggggaaa 480
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<210> 9831

<211> 548

<212> DNA

<213> Homo sapiens

<400> 9831

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tacaggcgcc cgccatcacg cccggctaatt tttttttgt attttagta aanacgggggt 180
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tcccaaagtg ctgggattac aggtgtgagc cactgcgccc ggccaaggga ggtgatgtta 300
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aaaatatact atttttattgg aagggaanan aataaccaan aaaaantgan gacctnaact 480
gctcctccag gcntttttcc ttttgaaaaa tttccctatn aagctggcct taattttccc 540
ctttactt 548

<210> 9832

<211> 581

<212> DNA

<213> Homo sapiens

<400> 9832

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tggtctacgt actgccactg caaagctagc ttgacgtagg actttgatgg tcatgtntaa 180
cacctcacag gggcagaacc tcttccatcc ccgactccaa agactcatgt natcagtagc 240
caagaaagtt cananatgan acctctgggt gtattccacc tttgggacat ggggggatgtc 300
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gccangtctg ggaaatctgg gcaggaaaaa ttctaanaaa caatcatcct gcacacactt 480
cctgaaaaan aatatacatt aatccenaat tatccctccc caaggttttg ttggcccatt 540
ccatanttcc accatctttt ttgnaaanc cccatttttt n 581

<210> 9833

<211> 462

<212> DNA

<213> Homo sapiens

<400> 9833

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tagactaagg gagtagccag tgcattcccag gagcaggaca gaattctctga cccctgaccc  180
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aggcagggcc tagttcacag gctgacaaga atctgcggat gtcctcagat gtcccacaag  300
gtctcctcct gcagacgccc aaccagacc ttgtctgctg caatatcact accagtgttt  360
gcagacctcc agagacagga gtctcaccac ctgcgaaggc agctactcca tcctgaccct  420
gtggaaggtg tgcaaatgtg ggggtgggtg gggacnnnnn nn                        462

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<210> 9834

<211> 454

<212> DNA

<213> Homo sapiens

<400> 9834

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gttgatatcg agtttattga tgagccattt accttcagat gccatactcc agtttttagct   60
tcgactatct cattctacaa aagttcacca tcttcaaaat ttaaacaatag acttaccatt  120
tgaccagcaa ttccacccaa gagaatcaaa aacatctatc cacacataaa tttgtacaca  180
aatgatcatg gtagcattat ttatcataga caaaaatgaa cagaacctag atgtccatca  240
gctgatgaat ggataaagaa acatggcata tcatacaatg gagtaatttc ggccataaaa  300
agaaatgaag tagtactgat acatgctata tcatgaatga accttgaaaa catgctaata  360
naangaagaa gcaganaggg ccacntattg tatgattcca ttacataaa attcccccat  420
ccntagagac agaaaacaga ttantgttta ncgc                                454

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<210> 9835

<211> 374

<212> DNA

<213> Homo sapiens

<400> 9835

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ggtaaangca ggatctcact ttgtgcttag ggtggtattg aacttctggg ctaaaganat   60
actcctgact tagcctccca aagtgctagg attatagcag ggagctactg ctctgggtca  120
gcttttctgc taaaatgctt tgctgangtg gaaatganga nggtgaaaca ntgggcgggc  180
atttgtttta caaaggctct acctaggctg taccatctgg tgaagtgctt gtaactttta  240
aggtggaaac natgccattt ttcctttatt ctcccgtctg taagaccana aagcaattgg  300
angatcctcc aataccangg anaaaccang tttcaaaaaa aattttttng tnggaagggg  360
aatcaaacc aaac                                     374

```

<210> 9836

<211> 558

<212> DNA

<213> Homo sapiens

<400> 9836

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atggctatth tcttaattht attcatgtaa ttaccaaagc tctgtattct actaaggtag   60
acatcttate ttgtatccat ggacgctcct tgatacatta tggatcatc cagcaagtaa  120
aaactaagca ggacaggcaa gaaagcaaca ctatgacagt aaaaacaata tggatttcac  180
ttttgtttcc tttaaagggg aaagtgttct taataattac tgttggtca cagaactaaa  240
gaaagtatat tagaacctca gtattcttaa caatgatctc tattggttgt tatttgtcta  300
agaagtgata agccatataa tttacagaaa gcaagtcact gaatcctta aaaaacacaa  360
cctggcaatg ttatcttcaa tgcaaaataa tgaagtggca ggancgtgat gaaaaaaaca  420
gtcttcgaaa acatcatgtn agggaaccan ctgtgcttgt atagtctcta acttggtata  480
naaatcaaac aactccctgt gactgaattc cccaanaact tcccnagcn ccttgaatct  540
ccttgntccc ncccaant                                     558

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<210> 9837

<211> 418

<212> DNA

<213> Homo sapiens

<400> 9837

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aaggataagc aagcttttat tccgtcaaga gaacaaaggt caggactttt atcctgggtg 60
ggggatgggg agtccagatt ctttctctga tgaggcaaaa aaagaatcaa gactcctgtt 120
caagtaaagg gcagagggtg agagctagta ctcttattct agaaaggaag tagatacttt 180
tctttgataa aggaatgaac ggtagactcc tagtttgagc aaaaggtggg aaagatgtga 240
cttgtacttt ggtaaggaga tagggaagga attaaggcta ttactctgaa gaaagtggg 300
gggccagggc tcctatTTTT ttgctgagga gatggaagat cagggttgt attcaataag 360
aatgggaggg gccagggatg cctggcaaaa gccttgcaact gtgaggtgca gnnnnnnn 418
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<210> 9838

<211> 592

<212> DNA

<213> Homo sapiens

<400> 9838

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gtttctttnn nctggagtt ggagtctcac tctgtcacc aggctggant gcagtgatgc 60
aatcttggt cactgcaacc tcagcctccc gggctcaagc aattctccta cctcaccctc 120
ccaagtaact gggactgcag gcacacacca ccatgcccgg ctaattcttt gtattttagt 180
aaanacaggg tttcaccocg ttgcccaggc tgggtctcaa ctctgangt caggcaatcc 240
accgcctcc caaagtgtg ggattacagg cgtgagccac tgcaccagc caaaaaagtt 300
tatctttcat gtttcagata aagccattgc tctaataata ataaaatag atatgcaaac 360
aaagtacat tggatgaatc gtaccacca aaaaatagca cttaaaatat gttttgcata 420
ngtttttcag tgatctgatt tcaantatga tgaaagttaa tggaatagga aattatgaaa 480
ctatactctc ntatatattt aaatgccatg cnaaatttta aatttcctaa ggaattattt 540
aatgatccca cntgattgcc aatccctaaa attaccgaat ttattcaaaa gt 592
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<210> 9839

<211> 593

<212> DNA

<213> Homo sapiens

<400> 9839

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aatgaaatct tatcttttgc aacaacatgg atggacctgg gaggccatta agtgaagtaa   60
tgatacagaa agtcaaaaac cacatgttct cgtaagtggg agataaacia tgtgtacacc  120
tggacgtgga gagcagantc atagacacta gagccttcna aggtgggagt ggggtgagag  180
atgggaaagt atttactagg tacaatgtat actatttggg tgagggtata ctaagcccag  240
atttcaccac tatgcaatat atccctgtaa taaaagtgac ataaatccat aaaaattaca  300
aaaagttgct caaaaaagat tggtagtcag aancatgaatt ctagatgtgc tttttcaact  360
atctcatttt gtaaattgtag tgtatgaatc ccaaatttta acaatagaca atttttaaaa  420
taccactgc ccaaattaaa anaaaccgcc ttttaaatat cccatttttt ngccacttgg  480
gcnccccacc tgaatttcca anggattatt ggttnccnc cccnttaat gtttggtcct  540
ttcccaagcc gccgaaacca aaaagtttcc ttttgannac actccganat ccc          593

```

<210> 9840

<211> 593

<212> DNA

<213> Homo sapiens

<400> 9840

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agtgggtgcag accactagtc actantctgg tgtctggctt aggtaaatat gtcttcttan   60
atattctctc atcagaacta cagataggat aatcaactca tcgagtttgc cagggnnttg  120
ctgggtgtag cactgaaagt ctcacatgcc aggaaaacct catcttaggc aaactggagt  180
ggttgatcac acaacaaaag atgattcttt ttgactcaat cctggacctt ctcattctctc  240
tgcggtttta agtaccatct gtatggatgg ctgggtgtatt ttgtttcctg ctttgacatt  300
tcttttaagc tttggattca aaataagttt tgcaccttat ttttaatgcc tatcttatat  360

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tccttactgc ataaatcaga anaatctcaa tattaaataa tctaaatatac aaaacttcat 420
 ccactctgaa aaaacaattt cncctctgga tgctactatac tcattaaata accagccctt 480
 ccaaccaatt gctaaactcc aaaccctgga aaaaaggtn gggatttcct ccttatnccc 540
 tncaaaaatc catttncccn ctacaaangg ccttttanat ccaatatcca aat 593

<210> 9841

<211> 581

<212> DNA

<213> Homo sapiens

<400> 9841

actgtataat agttttatit ttctcatttt actattttta cattttatgc acaaataatt 60
 atctgcgtaa aaatagaaaa taactgtttt atgtaaaatt acaaaaaaaaa ttaaaaccac 120
 aaagaaatac ataattgtta ttatgacagt ataagtgtcg ttgtcgttat ttaaagagta 180
 aaaatgtatg caaaagtcct cctcccattt acaaaagatt gagaattttg tttttcctgg 240
 cagcaagtga aatattgaag tatcaatatt ttacaccct ttagatctga agacattaag 300
 ttagtcacag atttgttttg caattatgaa ttttaaaaca tttttgtgct atttcaagga 360
 tacactantt ctttcttaaa ggcagtagca taaaatgaat atggaaaaca gcagaactcn 420
 cnaaaatatt tgggtggtaca atccttttgt ttcatactga atatncctt aatcagggga 480
 gaaaacacta acaatttccc tataccttga cggatncaaa attactgtga tcagccatta 540
 ctgaagatca ccnctntacc atccgccnt tgttttccga n 581

<210> 9842

<211> 588

<212> DNA

<213> Homo sapiens

<400> 9842

accaagttca taattttatt atactctgaa tagagatgat atttaaggag cagagaaaat 60

gactatacna aagatttata gaacattcat ttacatactg gatataattct ttacagtatc 120
 agaaaagtaa aaatatgcac taacaaggca ganaanacgt tacaaggtat ttgatgctga 180
 naataaatgc acagtgactt ttaacatggc tatagcttaa cactggagga atacaacaat 240
 acgttctttt actgagtant tagtaggacc ctggctataa catgcgttgg gcacagttcg 300
 tgaactctcc cgcatttact cccanggca gtacgtgcct gtccagcggg agccctggna 360
 aacaaaatgc ctgggaaaac nttccttttc ctgtggccct aaaaccggtg tccacgggtg 420
 gggggctctc tcacggtttc tgaaccaca gtacaatctg tngatnacac acaccttgtt 480
 ctgtttaatg cncatntttc ccaaaaggaa aaaaaaactt ccttccanc tctccaaaat 540
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<210> 9843

<211> 586

<212> DNA

<213> Homo sapiens

<400> 9843

ccacacagaa accaaccaca tttttactgc atctgctcca cgctggattc caacatgctg 60
 gcccggancg tggctggctg gaaacaactc caacaggttt ttcccttccc cgatcatgtac 120
 attatttatt ttgtatccta ctactgtcc caagtccana ngcagttaca aaaaacactc 180
 ttgatgcaaa ccgtgagtgg ctacaacaca cggatggggg tgggcgcgat tcccacaaca 240
 gggagtggaa tccgggaaaa taatatatag gggcaanacn ccccttact tgctaaaant 300
 atatggaact caaaaccac aattgctttg ttttgtttct canttcttg antattttta 360
 actacttget cttaacatta attncgtatt ttcccncaaa tatctgacct gatttaaaac 420
 atttttgttt gcatacatct ttttgtnttg ccccttatat ttttcennct gatttnggga 480
 taaaaattta atttctgcct aaaaaaaaaa ccttttactc tttttaaaaa naacctccct 540
 tccccagenc ttctntggtt cctttccaaa tnttccacca tntttn 586

<210> 9844

<211> 579

<212> DNA

<213> Homo sapiens

<400> 9844

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agaaaactta tttttattct attatattga acacattgta tcacccccac tcatagctgc   60
actccaaaac agttcttctg ggaagcaggg ttttagtttt actgaacatg aataaaaaat  120
ccaggcagaa ttcaaaacca gggggaaaga gtcaaggaag caaacttgct tttcagaagc  180
aagatattta taaacagtaa tagctgagaa tcatataatt tgtttctgaa aattaccttt  240
taaatagggc ttcattttac atttgcatag tatatggaat tttgtaagaa gcattaaatt  300
tcaaataact tgatgcaata aataatcatg gaatactcat tgtccaaata taacagatag  360
agcatgtcca ctaagantaa tgttatttct cttaaaataa aggggaaaat ctaagttcct  420
tgaagcanaa actgtgttgt tgactatggc agtcccgtgc ctaccatgat acctgaaatg  480
antcncacca acantgactt ttgaaaaaga ataaagaagg attgaagacc aattttttta  540
ccntncntgg taggaatttn ggcggtacaa taaaacaac                               579

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<210> 9845

<211> 583

<212> DNA

<213> Homo sapiens

<400> 9845

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ggaggtaaaa gtgagtttat cttatgctca gcaaaacata tttaggtcag tttaaatatg   60
agcaactggt aaatttatcc tcagctagca tanangtggg cattgttaat acnattcaaa  120
gcttggttgg gcactcttcg ttttatagta tgcctgggat acagcacatc tgtgagacaa  180
gaaaggctaa actagagctc tgcttcttct aatcctgcat tacaaattta ataataaagt  240
acatttctgc tatgtttgtg gttttaaaat tattcactgt aaacatccta tattctttcc  300
taattaattt cagagctgga acttatatct atgtctatgt caaattatca tttattctat  360
gaaaagcagc acgaatactc ttcatcttgg ttttgacaca aattccttaa aaaaaaatta  420
aggccattta attgaatcag ggccactgaa nattaacctg gcaaaagtca actactgatt  480

```

taanaatttt gaaaaaaaac caaagttggt gtentgtttt tctccctggt acttgaaaac 540
attgttaaatt tattatctcc actctctctt cnattncata anc 583

<210> 9846

<211> 586

<212> DNA

<213> Homo sapiens

<400> 9846

acaaccgtat gaaagaaatt tataatccac aaaacttttt caggtcttaa ggtaaaatan 60
ttccacagtc tacaggtaaa accaaggnaa caaaaatgcg tgcttatctt gattaagtaa 120
gtaattttat gcagaagatg tnacactttg tttgtanaca gcatggatg catttctcag 180
caagacataa ggaaaacaag attccnaaag atccattgta aggaatggag attcttgtac 240
aatcatatct agcagtaaatt aaacagattc tctatttctt gttgtagttt tatctgtctc 300
ctggccaatt ttcagtagac tggaggatgc aagcgccaga aattctttaa gacggctctc 360
aatgcttcct ttgtgaattg taaacaaagc tgcancaatc tggttgatgg ctttggccaa 420
ncaatgtntg ttgttgcaat gcccttctat ancagggtctg ttctganact cccattactg 480
gccantgttn gcaaaaaact gcccccaacc cntgaaaaa ggcggcantt tatcccctcc 540
tcnggaaaat tttcccaatt ttgttaaaaa aaaccccaac cttccg 586

<210> 9847

<211> 490

<212> DNA

<213> Homo sapiens

<400> 9847

ctctaattctt gacgtcacac tttatgtcat taagttgatc ttcaatctct gatatacttt 60
cttctgcttg atcgattcag ctattgatac ttctgtatgc ttcacgaaag tctcgtgctg 120
tgtttttcag ctccatcaga tcatttatgt tcttctctaa agtggttatt ctagtttagca 180

attcctccag ccttttttca ttttagctt ccttgcatg ggtagaaca tgctccttta 240
 gctcanagga gtttggttatt acccaccttc tgaagcctcc ttctgtaaact tcgtcaaact 300
 cattctccat ccagttttgt tctcttgctg gcaangaatt gtnatccttt gcaagaaaaa 360
 aaggnttcct ggttttggaa atttcnacc ttttggcann ggttttcccc cccctccatg 420
 gaattaatct accttnggtc tttaatgccg ggtgaacctc ccgaatgggg tttngttttg 480
 naaattccnn 490

<210> 9848

<211> 310

<212> DNA

<213> Homo sapiens

<400> 9848

gaagatatta aaattcaggt tttattattt gttcagttat aataatttaa gttaatatatt 60
 gctgtattct cagagcaaan atgtatttct gtaccactgt cctgtataaa ttgtttaccc 120
 aagatagtga ctggtatgaa aggagaggga agagggtgac agatggaaac gattgctgta 180
 ggacagtcca tctggccaga tgcggtgggg gaggggagaa aaantgggag ananatggtc 240
 ctacanatgc tccntgggt aaatgatggg tgcacccctc cctgcantcn ggctgtgcct 300
 gtacttcaca 310

<210> 9849

<211> 543

<212> DNA

<213> Homo sapiens

<400> 9849

cagagcatgt agcaaattta ttatccgtgg gtgagaaact gttacatgaa gacacacagc 60
 aggggaaaga antcagcatt taacagataa tctgtgcttc tcagacaggg gaaaaataaa 120
 aacactgtgc tgcattataa acagganang gaagaatcca gtgaanaacc cttaaagtga 180

atgtcgtcag ctaacatagg catctcatcc aaagaagact tcaacagagc agttgtttga 240
 gttttcaatc atcagtattc tgagaacttc aagtgtgtat tattagtgtc aatgctatcc 300
 atgttccttc tctattttct atgatacgag gaaatcacat gaagctgcct taagtgggtga 360
 aaataaatgg attctatttt tgcagtattc ctgcagtctt ttaaatacaca cacgaatact 420
 gctcccaaaa ttatcatcan cttctgcctc anaccttcac gaaataactg aaacaatgtg 480
 ggggtgtctnt taaaaaacga atggctaacn tccccccntt caatntttcn cccccctttt 540
 cna 543

<210> 9850

<211> 530

<212> DNA

<213> Homo sapiens

<400> 9850

cccaagggaa gttaataacct ttactaagtt acaaaaacttg ggcaaatcaa tacagtactc 60
 ttttataatg aaaccatact tttgttggan tcatgttact ttantganaa ttttcacncc 120
 aaaaatattt aantnccaaa tcaaaacact gggtttttaat ggtgggtttat ancataataa 180
 ggtattttgc acaaaatata ttttaaaact acacaatttc tccttitaag tgancctccct 240
 tgtgcaagct gctgaantgt acagcaacag ggcaatgggc gtctatagga ggtggctctg 300
 ctctgttctg gggttgggtcc aaagtcaggt gganttccaa tgtatgaaaa gcttgaaaaa 360
 tctaccttaa gganactgaa tatcaatacc agtttccaag ganttcttgt tgaaattttc 420
 acanaaatac tggaaaccct caaaatcaaa tantaatttc aaacaacatt aattccaaat 480
 aatcctttta tttaaaagnc ccnccnctnt tttaatnaat tccanaccct 530

<210> 9851

<211> 493

<212> DNA

<213> Homo sapiens

<400> 9851

aatgtggaga aatTTTTatt actttgaatg ttttagaatg caggtagaan agacccggag	60
ctcaaatagc ttaaataagt aggaaatcta ttggctaata caactggaaa tgcggagata	120
gggcaggctg cagggtggt ggctcagggc tcagggggcc ccaactctct gtgctgctct	180
gaggcactgc cttcaatctc aggttggcag cacaaagctg ctganagtcc cagtgtcacg	240
cccanacccc acaatgccag ggaaggaaga caggttctat ctaanganaa atcttccatc	300
cccacctctg cggactttta ctcaattctc aggacctgc ttgggatctc aggcccatnc	360
ctnaaccatt tnttggcaaa caaantgaaa tattttttac accaggcagg cacccttgga	420
ttgnaagcac ccacctccaa ttctttcagg aaaaaaggga aantgggaac tncncaaaca	480
ncaaccaccn tnc	493

<210> 9852

<211> 597

<212> DNA

<213> Homo sapiens

<400> 9852

acacaatata tgatttttatt aataaatagt gcaaaagcat cagtataac tgtttgaaca	60
ttaaattttt taaacagcca tgtcttggca ttagttaata ttgtgcatat tggcctctat	120
ggcactacaa gtaaacagat gaaaatattg ccatttttca tgcacaggta ttcagctata	180
acaccattta caaatcatta tgaacaagat aaattctgca ataatttca tttggatggc	240
cacaattaaa tgagtgttat atcaagaaat agcctatgtt caatatactc cagatgtcag	300
attgtaaaat gtaatgttat ttaaaactta attctttatt ttccttaaag ggacaccttt	360
tgtgtatttg ggtactcaaa tgaaaactta ggaatgcatt ctttgacat aataacaaaa	420
ttcacacaaa agaagttgta tgcttctcc tctaaaagaa ncaatacatt tgctcataat	480
ctctctctcc aggtacattt ctcattattat taatgaaaat gcctacnaac accaacacca	540
aaattctgtc ttccaggga aggttncaat ttaaaaanat tggtcntnt ttnaaaa	597

<210> 9853

<211> 582

<212> DNA

<213> Homo sapiens

<400> 9853

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ccaattctta ttttattaaa aaaaatggaa ataaagttaa aaaaatcaat caacatggcc 60
ttaattttta acaattttta cagcaagtgg tggggggagt tctcaaatga ncaactggag 120
ctggaagcac ttctgtggtc aagcaggcag cccatggggg tgcatcttcc tgttggggga 180
tcatccattt tcttcaatga atagttttaa gtcttgtcaa atgctcacac agaggcccgc 240
tattaaggag gcanacaggc aacattcaat acgaaggcag gacaagctca gccccgctcc 300
ttcattcggg catgtgtcat tagggatgac attctctgaa ggctgcccgg cttgaatggc 360
caaatccctg catcatggct ttctttaatt ccctctgctc ccaactcaca aaatgangac 420
ctctctttta aaacaaaaag cactgttctc aaaggtatac atttgaact tccaataatg 480
aaaacatctc ttgcttggca ggtggaatat agcaattttg gatttttaat catgcatggg 540
gcggaattaa atttcttcca gggtnnttn ctaaaaatng ga 582

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<210> 9854

<211> 547

<212> DNA

<213> Homo sapiens

<400> 9854

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ctttctcttt ccctttttct ttgtcatttt cttaacagc tttgttgctg ttagagccac 60
tatttccatt gcttgaattc cctttagggtg tggtactaga agctttatta acagctttca 120
caccacactg agatctctcc cttgatttat cagtctcctc agtactgctt tcatccgatt 180
tagatgcact tcctattgat gatgaanaag gccaccacc aggcccattt tgcacactgg 240
caactgcatt cctcggaggg gggcttttgt gatgaaactc attttcaggt atcatgtatg 300
actttctact tttcaactgc ccagagtagc ccatagccaa tgcatataga tctggcctct 360
tctctttttc ttcttggcag attttgtgta ctcttctttc caaagcttga cccagattca 420

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aaacttttgg gtaccaagga agtatttttg ttancacaat caagatatcc tgatgtnagt 480
atattccctt gtttccangn aatgttncga agccttggtt agtttgttat gccattatnt 540
tcnacat 547

<210> 9855

<211> 580

<212> DNA

<213> Homo sapiens

<400> 9855

gcatttaaat ttccaatag tggcaatatt tcactttcca ggtataatta ttttctttta 60
aaaatgccac taatanatac atgtcattac acatttggtt aaatccacag aatgtncaac 120
actgagagtg taaactgtgg actttgggtg ataatgagac attgatgtag gttcatcgat 180
tgtaacaaat acaccactgt ggcgtaagat gtcaatagtg ggggcactct gtactttctg 240
ctcaattttg ttctgaacct aagactgctc taaaatacaa agtctattaa ataaataaat 300
aaaatggaaa aacagtaata acaaatgccc cttgaaacca ttttccaaa aataatttgt 360
gtcatcttgc ctgaagaaaa agaatatgta aaaaataatt tctaaaattc tgtttcttta 420
taccaaaatc acgggacctt gaatatctta acaagtccta attattgctg aagaacagga 480
atcactactc cgaaanatgt nacaagaac ccttccttac catattaacc cggccccccc 540
ccaaaaaana ttttcttnt ttcngggaan cnggaaaccc 580

<210> 9856

<211> 473

<212> DNA

<213> Homo sapiens

<400> 9856

ganacaaggt atcactttgc tgcacaggtt gaantacagt ggtacagtca tggctcactg 60
tagccttcac aaaccagtc atttgactc ctaggttcag gcaatcctcc tgcctcagcc 120

tccaaaatan ctgggactat aggcatgctt caccatgcct ggctaatttt tttttttta 180
aatagggaca tgatcatgct atgttgacca ggcaggcttg gaactcctag gctcaagcaa 240
tcttcccact ttagcctccc aaaatgctgg gatcacaggc ttgaatcact gtgcccagcg 300
ganaccttct gttttctcag ttaancangg aaagtgtntn aaaggtgaaa tgcangtttt 360
caactgtcat ctgaaaaaat caaaancaa tctgctaaaa aaacatacaa aaatgggtag 420
gccttattaa atggctattt aaattttttg tnanaaat t caattntnt can 473

<210> 9857

<211> 470

<212> DNA

<213> Homo sapiens

<400> 9857

atgaatgaag agtgtgctat gcaaagagg gcgattcaca aaaagagaca gaacatggct 60
gccacttctg cttctacact gcactgacac tgcagcaatg tacctccttc tacacccgct 120
cagcaaaagc gtgtgttttg ggggtggggag ggagtaaggg aggaggaaat gttgtttggc 180
ctttctctan ctattttacg ttaaacagga ctcggtacag actttaaaaa gttatttcaa 240
aaaggtctga ctttagtaat gcactgtatt taaaggaatg catccaaatg actaagtcct 300
aactcactta actctttcca accctccgaa nataaacaag agttgaactt aattacaana 360
aaacggatgc taatattctg cttggaatta aatcccttct caatanaaaa gtgttgccna 420
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<210> 9858

<211> 575

<212> DNA

<213> Homo sapiens

<400> 9858

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 aaagtaataa ataatggcca taaaacacca agacagttat aaaaatgaca acccagcctc 180
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 ttatagcatc attgacttta atattacatt catatgccaa aaatctttac agatacataa 420
 gaanaaaat aacatcaatg atgaccctac agtatattta gtaaaagtga naatgaattt 480
 tttgttggtt caaaanaaga anctactttt ttgaaacaga caagccaanc cgaaactgaa 540
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<210> 9859

<211> 595

<212> DNA

<213> Homo sapiens

<400> 9859

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 cacattctct tgatggaaaa aagttttgtc aacgatattt tcaatctgct ttgctttttt 180
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 gtgttgatgc tgaaaagtta caggatctct tccagganga ggatggcagt acagcagctt 300
 accactgaca tantccttca ggatgtancg cgcanatcga ngctggctctg gctgtccatg 360
 cgctgtcatg aatcctcgca tgtatccata agctgtcaac agttcttccg atnttggaag 420
 tcggtgggga tcttcatcct ctctangcgt tatgatgtta atgccataag tacttctaaa 480
 acatgtcttg gaatattctg gcaactaatg atacaggaag aacataatct ctctctgaa 540
 tcaattggga agaatcccc tgccaattcn ttcttnccn ggtaaaaaan aaaaa 595

<210> 9860

<211> 583

<212> DNA

<213> Homo sapiens

<400> 9860

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attttttttt tttttttttt tttttttgca nacgaagttt caaccttttt attcaaagca   60
gcttctcaca atgtataaat actgcatatt agcacacatg aaaaatacaa cttctaaggn  120
accananaat gtgttcatac acgttacagg accattcaca aananagtgt acaatttgct  180
ctaaacagtc aggatttgat aaatcanaaa attattatcc ctcagtactg caccagctct  240
cagtaaatat ttacaacatg gtganaaggg gtcagctgta ctttctttat aattctatga  300
agtactcana cttacaaata ttcagaacta gttaaanact ctcccntgat aatctggcaa  360
aataaaacaa gtancctaata tttgcaaagg tctcggtgga ttttggtgtn tgctacatcc  420
atgatcaaat ccaaacactc ctanggtggg ctggataant ttttggtagc ctgcttcatt  480
atcggaattt ggtaataanc cttaccaaca aaatacanct cttcacatca tcattctcac  540
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<210> 9861

<211> 589

<212> DNA

<213> Homo sapiens

<400> 9861

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aaagtattat gtataatatt ataatggtaa atatgtgata tgaatttggt gaaatcaaca  180
gaatatacag cataaagggt taattccaat tcacaaaaat ataaataaat aggagattag  240
gaattccagg atagaatgca gacaatatag aaaatatcta atgtcattac aaatgtatga  300
aatcagaana ngtgccaaagt gacctcagaa atagtgtagt caataaaaga ataaagaaag  360
tgcacgtcag aactgtaccc cagctgatga tgttcctcca aagagcaaaa catacacaat  420
ctggttccac tctacagaaa tcctggaact ggactacaaa gggaataaac agggttgtgg  480

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cnggaagggg gtcncnccg ttggattgca aggttaggga caggaataaa aggccggtat 540
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<210> 9862

<211> 591

<212> DNA

<213> Homo sapiens

<400> 9862

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cccttacagt tcagtattat ccttgtttta cagatgaaga aaagccaaag agaagttata 180
taactggcaa gtttctctgg ctccccgcct gcaccactgc tcgccagatt gcatgaagag 240
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gaaatgccat tggatacata ttctaattct tcaggtataa aggacagtca nactgcctca 420
tctgttcac caagggatct ganaacanac attcctccag tnttgaacat ccacatcctt 480
atnggaaaat ggtccaaaaa aanaatggcc ccnnttttaa aanattttt ttagggccga 540
attttttta aactaatitt cccaaaattt ttanenttt ttatgcccc c 591

<210> 9863

<211> 524

<212> DNA

<213> Homo sapiens

<400> 9863

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caagtagcag tttgaattat aatgacaatt ctttaggatt ttatgtagct tgcatattta 120
acatttaa atattgttct aggaattggn tgataaaact agaaaataaa gagaaattat 180

gatcaccatg tgttcactct tcagactttg atctatgaat cagctcactg agagagatac 240
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 cttgcagttg aaacataaat gctataaaaa ttaatcccc tagcactacc gctgttgcca 360
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 tctcaattaa gttacaaaaa nttctcctga aatgacggnc cctctaaant ggaaaagttc 480
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<210> 9864

<211> 519

<212> DNA

<213> Homo sapiens

<400> 9864

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 catctcctgc ccagatccca ggggtggcctt cctgaaatga acgtccatc tgaattttct 180
 tctccctgt ctctcaagan aatgcccagg ctcttaacca tgtctcanac tgccctgcac 240
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 gtttgtgaac ctgangagta ttcattgtcc aaagtgcac cactctggaa ccgcctcccc 420
 aagctgctgt gggctcttgc tgggtcccc naatgttcaa gtctgtctcc ccgangggcc 480
 caatnccact ccanaatntg ttttctcccc ccannacta 519

<210> 9865

<211> 433

<212> DNA

<213> Homo sapiens

<400> 9865

aggtttttagc agcactttta cttccacatc caaactccct gggtcctcac aacagccctg 60
 tgaggtaggt agggtaggaa ggtttcagag atccccattt atagatgagg atgctgaggc 120
 acagagaggt gaagtgactt gtccaaggtc atacaaccag cagtgtagag ggctcaaagc 180
 cagcattcct ccacttgaac tcctgcgctc cggccctctg gcagttccca catcctctct 240
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 cctggcagct gagatttttc aggaatggca actggggtag gcctgggtcaa ctccagatag 360
 gagctgancc tgaagagcat ggggccagct ttgcttctcc ccattcccat tgggatgaag 420
 ggcctatnnn nnn 433

<210> 9866

<211> 532

<212> DNA

<213> Homo sapiens.

<400> 9866

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 gaccanactg tactgtggcc atgtncacaa aggcatgcac cacatcccag ctctgctgcc 120
 ctgggctgtc ccacaggcag ctctctanaa cttgagagcc tcaaaagggg cctcatgaag 180
 cccaaatctt cctggtcag ctgatggcat tcgtataact gaaagttggg gaagaccacc 240
 angtcngtgg agtggagagg ttttgtatat ggtcttcttt gaaaaaactt acttcttgca 300
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 tggangtcta ctccccctc nctgaatttt gtctctgaaa tcanaaaccc cggccccacc 420
 aattccacag gccaatccac ntccagccn ccttgnctc ccccantgaa cccctttcn 480
 acggattttc ggaaaccctc ctccnggaat ttcttnaacc ttggtccctt cc 532

<210> 9867

<211> 576

<212> DNA

<213> Homo sapiens

<400> 9867

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acaaaagctc ccacatgtaa acaagaacgt aaataagtta gatggcatta ttatgtacat 120
tcaagaatca aaacatgttc tggtaaacad tccataatcc ggtaaaatgt tttcacccat 180
cactgttaag agaaactgtg tattaatac tatcaataac aaaacctaata ctttgaacat 240
tataaaatgg tttacggaat ataaactata cagtttagtt tttcattcct cctagcaatc 300
cgtgtcacat gtatactagt cctaagangt attttgtcag tattagccca aaangtcccc 360
caccctaaat naaccagttt acacatatct cccccagttt taagggtggg gatgtgttga 420
aacccatata ttacaacatc ctttttccaa actaacctaa tcctaattcc tatectacta 480
atccggggng cccccattta tctcccgctc acccttcctt naaatccnng gngggttccc 540
cttaaaaaat ccgccgatcc cntttaana taattt 576
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<210> 9868

<211> 505

<212> DNA

<213> Homo sapiens

<400> 9868

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caggtgcctg ccaccacgcc tggctaattt ttgtattttt ggtagagacg gggtttcacc 180
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cttcccagan ttctgggatt acaggcgtga atcaccgcgc ccagcccaaa tcgccgaaat 300
ctttatctcc taccttgatc tctgtagcag aaaagaacag tatanatata aattgtcatc 360
aacagatgca acatatcttg tnaatcaata tattttcaag tgaggctctc gaatcacctg 420
cactgaaatc atctgtgatg cttatcaagc atgcagatct caggancntc nctganttcn 480
taaattctnt ctctggangt taaaa 505
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<210> 9869

<211> 596

<212> DNA

<213> Homo sapiens

<400> 9869

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caaaggcaaa taaaataagt ttattgggat gtaaccccat cataaattga ggagcatcca   60
tacggggcaa gctataaaat ctggaaaatt taaatcaaat taaattctgc ttttaaaaag  120
gtgccttaag ttaaccaagc attttgataa cacattcaaa ttaatatat aaaaatagat  180
gtatcctgga agatataatg aagaacatac catgtgtata aattcagaat acgcttttta  240
caciaagaac tacaaaaagt tacaaagaca gccttcagga accacactta ggaaaagtga  300
gccgagcagc cttcacgcaa agcctccttc aaagaagtct cacaaagact ccagaaccag  360
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ggttctgctt gctgaccacc ancttctgat gctgatgcga tatgttncct ttgacgtgtc  480
catgtttatc cagttagecn gaatactga acttntcca tttcncgtcc cccccgctn  540
aaattccagg ggnncccaaa aactcccaaa aacctngggt ttttccctt acaatt   596

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<210> 9870

<211> 579

<212> DNA

<213> Homo sapiens

<400> 9870

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aaciaataaa attctttatt taaatttctc ttgtggggaa aatatttttc tttaaagcac   60
acttaaaagt aatttgcatt tacttcctgt aaagcatttc catttcacaa ttagcaaaac  120
taaaaggcta tgtctcttca tgcatttatt tttgttagaa aaatgtccca tgggtctatc  180
aaaccgattt taaccatcat caagcttaac ttgcctctg ttgacaacat gactacaaac  240
atgaatcaaa aaggagttaa ggaattttta gccataaggt ttcaattata gcttaccaat  300
tatgtaatta gctgacaaaa atcaagtctg atgtagaata gctgtcatct acttaactgc  360

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agataatcat ggcattttca ttttaagatga tctgaactta tgaaataaag gatccagtcc 420
 caagaactca ataatctctt atgttttctt ttgnaagact tatttcaaata attaactatt 480
 tcggtgcctg aatggaaaaa tataaacatt aactcnaaaa naatgttgta ccggtttgga 540
 atccactngn actttaaccn cngtgnaaaa accgaaagg 579

<210> 9871

<211> 594

<212> DNA

<213> Homo sapiens

<400> 9871

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 tttatttccc tanaacagaa gggctggtat aagttatitt ccagaaatga ggtaccgttt 180
 tcacagaact ggtttctttt ttttttttca agttttanan aactaaattt gcatttggtta 240
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 aaagcaggat aaaaaggctt tttctctaac attctgtgtt gtactgtatt gttgttcaat 360
 aggaattanc ttctgtcatt tgctaaaaaa atgantattg gggaacagga tatgttggaa 420
 atttcataac gggttaacaga accattctct tgggttaaacc ataagcangg gcanctgtgc 480
 tgtaaccata tgggttttcc ataccctgna actatttncc agaacaactg tccccacaa 540
 aannccccct gttnaaatc ccccccccg ccccaaaact ngnatggtgc aan 594

<210> 9872

<211> 479

<212> DNA

<213> Homo sapiens

<400> 9872

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 tgcanatgac atccataatg agtctcttaa atgaagggtt ggcangcaat acagggtctt 420
 tgaataaaaa tntccccagg aaaaatactt gcaantcnag cccccaaacc atcanntnt 479

<210> 9873

<211> 551

<212> DNA

<213> Homo sapiens

<400> 9873

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 gtgcaagtat ttaaaacaca atagtgttca attcancaaa gtattgcaaa atgtcatgcc 240
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 cacatcccag ggtctcctta acggcaacaa accttatgct aaggcaatgg ctttgggctc 480
 cgggttagaa atcnccecca ttttttnac ccccttgnt tntnttgaa acaatgaanc 540
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<210> 9874

<211> 530

<212> DNA

<213> Homo sapiens

<400> 9874

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gggaaaaatg taatttatTT gcactgcttc cattcttcta ctgtagtgtt aggacttaac   60
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atacaattta aaaaaactta tgggggaaaca cagcttatgt tttttctcc tctttacagg  180
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aaaggcagan attacactga taaagcctaa agaatcctgc acaaatacaa tacagaaaac  300
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tgacaaatat taaacattat atacnctatg aggtaaatgt tccttggtct cttganaagt  480
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<210> 9875

<211> 475

<212> DNA

<213> Homo sapiens

<400> 9875

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tgtacatcat ctccaatcca tattcatcag gancgccctg gggcttgtca tcctgctggc  180
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gatgttctaa cagccacaat naaaactggg ggttngaagt tanaacctct naacnagaat  420
tgggatttnc ccaagggaat aaggggggtt aaataatcca aaaggccna ccatt         475

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<210> 9876

<211> 471

<212> DNA

<213> Homo sapiens

<400> 9876

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aagtgcccta aaactaactc taagtttttt agtcactgac attaatacta accagggttac 360
aggaattgaa gtttaacatt gtacaatata agcggcaata agttactgat atctgctgac 420
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<210> 9877

<211> 560

<212> DNA

<213> Homo sapiens

<400> 9877

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cacagaacat acttaatttt ttattttgaa attccctatt ccctctatac aagaaacttt 60
gctgaaacag tttccacaaa ggcagcagtg aattttcaga aacatttaca ttttttcccc 120
ctcagcaaaa agataaatca cagtgtaaat tatgttggtc tgctgtcatc tttggctggg 180
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catnntaata agngaaggc 560

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<210> 9878

<211> 582

<212> DNA

<213> Homo sapiens

<400> 9878

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cacgacaaaa ttcaaattct catgtnattg ctacaagtga atgtnaatga actaatcatt 180
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agaatgcact tgaaatgatt aaatgactta agctgattca ttttttttta ttgcaaactg 360
ttttaacatc agcttaaccc ccatgcacgg tattcaaaaa gaacacagct ttcgaattag 420
aaagatcact taaattaaaa aganaaatta agttctaaaa ttaggaaaac gctggaattc 480
cttttgaaag gaatctccnn ttccattctt ttnaaaaatc naattttggt tacgggtccc 540
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<210> 9879

<211> 582

<212> DNA

<213> Homo sapiens

<400> 9879

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caaactgttt gattacaaag aancacaatg ggttaactgt ggcaaaacat aanaaataag 240
gcagggggagg cagatacaga cttgagaaca taaggatata caaacaattt tgtcaatata 300
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aaaagacaaa atcaaaacat cttttataat ataaaacaaa tccatataat taaatactaa 360
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 aaatttaatg caaaacatca tgtttcaact tccacttaac atcataacat gttattcctg 480
 gggaatccaa aatttatgga atgaatattt aaattgactc ccaanatcca accagttttt 540
 attnggttat ggtggcctta antcctnaan ncttcccttt tt 582

<210> 9880

<211> 578

<212> DNA

<213> Homo sapiens

<400> 9880

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 tattcttggt ccagatgttt tgaacagact tgaattcctc cgttacttgc aatccctata 480
 attcnagggt cggctttcca tttctgttaa anggtcctgg aatttaattg ggaagtttta 540
 atccttaaaa aatttgggaa ttagccccct aacaantt 578

<210> 9881

<211> 588

<212> DNA

<213> Homo sapiens

<400> 9881

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 aaaggcttgg catttttctg attccctcta aatagcatct gtacacagga atctggggtt 180
 gagcagggga atcttaatga tttaaattaa atgattcccc tataccccct actccaaaaa 240
 agttttaaaa atcaatctat cgaaactcaa ttccgcgatt ttcaggtgtg caaatcaaag 300
 gcttgcccgc ccggaggtag ctgtccacc agggacatca ngcagggaca ggcagaaaca 360
 cctcccatgc aaacactgcc cctctgtctc tactggaggg cagcaaactc angctggccg 420
 ggctgggaag gccggtgccn aacctgcccc tctctccgcc ctcttcacct caatcctgct 480
 gtcccttctt ctctcattgc aatataaana ntgcatacac ccaaccaggg aatgaagggn 540
 ttaccaggaa aatnttcttc cggatgggca angggantct ccaaaang 588

<210> 9882

<211> 456

<212> DNA

<213> Homo sapiens

<400> 9882

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 ctcaagggtca taagggtgcaa ccattgaaat ctaacacatt ttctaaactt ctgtcatcat 180
 ccccatcatg gtatctcaca gtccttctac cctgatttct cgtttttatt tttgaacgtc 240
 gaaaaactct tttagatttt gcatagtcca aatcctccca gtcattatca tccacactta 300
 acctagggcg tttgctttgt ctttgacgtc tcacagtttt agatatgtta gctgtaaaag 360
 ttttaccttt tctaactact tttgcttttc ctttcgtttt ccncntttg gggtttgtnt 420
 tanccgtaca ntccaaatct gaatcnattt ccnaat 456

<210> 9883

<211> 509

<212> DNA

<213> Homo sapiens

<400> 9883

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attnnnnngc acatcccttt tcactttaca gtacatttga ctatagtga caacatgatt 60
ccgagtcaaa acagtggccc attgggcact gagcttctga ttggtgtaag gcagtccaat 120
cagtgcctggt gtcactgggt tacccecaacc atgtccggcc aaaatggcac taccagtggt 180
tagtgaacca tctaattaaa accaaaactc ccccaggga aatgctacac tatcagagtc 240
agtcttgagt cagatcttta tttggtgctc catccanata tatttttagt gctttctctt 300
tacgangtga gtatgttaca cgatgtccag tcttctggan tcgactgctt tcttttttca 360
tcagttcatt tctttgctca tctgtcaatt ccattaattc ttctgtttta tccctataaa 420
atatgaccgc cccctcctcc cngatattaa gangcccaaa ntcccgggtt aaaactttan 480
gaatccctc caaatccnga anaaaatcc 509

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<210> 9884

<211> 423

<212> DNA

<213> Homo sapiens

<400> 9884

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aatctcaagc tgcttttatt acagaagtaa tacatgtttt gtacggaaaa tgtagaaaac 60
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tgttatcact ctgcagttta ccttcaagta tttttctaca cacgcacaca aaaaatatat 180
acatcttatt tttcaatctt attttttcag ttatgtagtg aaacagcttt tctggcgtag 240
agcctacgaa cttgagcgct tgtgtggatt ttgtcctcac aaccacagcc agcatacaca 300
cagctctgcc acccaaaaca ctcttcaccc tttctctggt ggtcntgcct ccccgaaacc 360
cngcctctcc anccaccgat ctgggtctcc anccccangg tctgtnttct ttttganaat 420
atc 423

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<210> 9885

<211> 546

<212> DNA

<213> Homo sapiens

<400> 9885

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aagattaaaa aatgctttta tactgctgaa gtctttcaat tctagagcag gcatagaata   60
tatagaatgt ttaccttatg accagataca acctcccaag aaaaactgga tcctgcaggg  120
cagctgggtct tcacagttcc tgctgggact acagttgcag aagtcattcc atcacttttc  180
tctttttaag ggagttaagt acaggtnaag gaactcttcn agcaaagatc ttaataatct  240
cttgattatc gatgtccgtg gaggcttttt aatccttcen ttgcttctgc attcttganc  300
cttggtctct ttcactcaact ctctcctaata tctcctgtct ttctgaatgg gccattccag  360
ttttcaatag gtgacttcta tttctcngt gttgggtgtg cctanggttc tgttgtgtgc  420
atttctgana tatattaaca ctccgggaaa tcttattgac aaatcccca ttacttaaac  480
attgtcantt ccnggcnaa atccctatct taactcngg tcnaancnc cactttatgg  540
gctttg                                         546
    
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<210> 9886

<211> 557

<212> DNA

<213> Homo sapiens

<400> 9886

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gaaatggtac tgaatatatt tgttacatcc tgaatcaacc caatagacta tcttgtaaac   60
aaaatagtaa ggtaacactt caaaaacaga tgaacaattt atccaccaag aatgtatata  120
gtaagccaaa agctcactgt ggaaatacac ttagcatggt tattagaaaa tcacaaagag  180
taatgtaaca agttacaaa ttttatggtc atgttctgct tgataattca aataggatgg  240
atggtagtta ctagtttnci atttgtgttg ttttaacatc tccattgatt tttaatgctt  300
tattttttat ttgaatttgc tggctggcag gtttgctttg ctttaatacat tgactgcaac  360
acncttattg ttgtgtttgg gtanaataan acntncgana atatttttta aaggcctntg  420
    
```

gaaggttcca tggaaaaatc cgaatactcc ataaccctgc cgttccaaaa ttccactgaa 480
 tgcctgttat tngggcacca acggaccctn gttggcaggt ttttncnnc aaaacaatgg 540
 ttggtntncc nectgct 557

<210> 9887

<211> 553

<212> DNA

<213> Homo sapiens

<400> 9887

actgaataca accctccccc gtgaaagcca agctgggtaa tgctcttgct tcccaggatg 60
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 atctgctgga gccaggcaaa tagcttcctg attgaagctc aacaaaagggt gagangtccc 180
 ttgggttgct gtgtacctaa aagctctccc atatctcaga ctgcaaacta cctgtttttc 240
 gtgcaganag aaangcctct aggttcagg ttctggactt tgcctttaag cagattggct 300
 ttgccagaat gtctcctttt cttatcactt aatgctgttg cctcccagaa ctgatacttc 360
 ccanataacc canancaaat gtgaaaaagc acancatgcc ctgagaacga tttctaanaa 420
 actgcatgga ctccatcatc taanaacatt acatgttggt ctctatact tcntaaccag 480
 ccagctact ccgaatatct gaaattagtt nctentatat ttncagggtt gtttcccnc 540
 ctgttcctna tat 553

<210> 9888

<211> 492

<212> DNA

<213> Homo sapiens

<400> 9888

aaaaacatgt taagatgttt tattcttaa tcagctaatt tgactgggaa acaaanatgc 60
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cctttgctca caagttttgc ggctgccaat tagtttccan agtcgctatt ttacaaaaat 180
 gcttctcact tttaaaaaat gtaattgaat gtctgttcat cacagagttt cttgtgttca 240
 agcccagggt gttaaacatt tttcagggtg acttgggtca gctttgaaaa atttcagaca 300
 gtgaaacttg anaagggacc gtatgctata ntgtgttcct cacatcctgt taagtattaa 360
 gtggatattt aaaatggant tgttatcctc ttgactgact taaagtgagc catatanttt 420
 accanactat taattaaatn aaaaaaatgc ctgggatgcn catttntttc ntaatcatcc 480
 cattggnccc ga 492

<210> 9889

<211> 441

<212> DNA

<213> Homo sapiens

<400> 9889

aagcttacc tgtaattttt aataacttta taaggagcaa atgtgtcacc ttaaaaatgt 60
 accagtggca tttacaaatt cttcaaact catttacaaa tacagtaata aaaattcctg 120
 agctcccttt tcttacacca gtattcacca atcaacatcc atgcggtgtt ttatttgacc 180
 cacatcctct ttccttttct taagaaaata ttttatcaca ttcgtaaaag tatctgtgct 240
 tcaagtcagt ttgtaagtat ctgtttttta tgtgaatctg atgataacaa gagaaaaatg 300
 cttaacatta ncaggggcag cangaattga ngggtggtgt gggggacaat ggaaggaaat 360
 atnaatacca naattccagt ttangtgttg ggacttccaa ggtanaatac atctgacaat 420
 atcaaaaaca nactcnnttt c 441

<210> 9890

<211> 579

<212> DNA

<213> Homo sapiens

<400> 9890

ctggtaaaac tgtagtttat ttatcaaaaa atgtgaattt ttattttaga aatgtaggtc 60
aagcattgtc atagttagtag tacttaattg anaataatgg nttcnatttg gaagantcna 120
tatacncatt aaacaaaatt aaacagttaa aattataatt cataataatt ataattctca 180
tttttagatg gccaaaatat attgttttct tactataaag tgttatttat tcatcgtcta 240
tttttactaa ttatattcaa ttcacagtag tgacatcaaa gggacaagtc atcataggtc 300
tgagaccagg aaaacctggt ctgttttaac agaagcgtgt ctaaaataaa antacatatt 360
tcaattaggc cccccganat ngaaaagaac ccggaatnct cttgtttttg aaggcctgaa 420
ttccagtttn aatgtttatt cttncgcccc ctgaaataat taaaaatttg cccatanggt 480
cggtgctatt taaggcgggt tcaaccctt ttgaaattta ccacttaaaa nttcncctnt 540
ggaaaaanaa aaaaaaattt tgacgttttg gttaaaana 579

<210> 9891

<211> 522

<212> DNA

<213> Homo sapiens

<400> 9891

agatanantt tcgctcttgt caccangct ggantgcaat ggnacaatct cagctcactg 60
taacctctgc ctctgantt caagcgaatt tctgcctca gcctcctgaa taactaggan 120
tacaagggnc tgccaccatg cctggctaatt tttttgtatt tatagtaaaa antaagtttc 180
accatgttgg gcaggccggt ctggaactcc tgacctcaga taatccacct gcctcggccc 240
cccaaatttc tgggattaca ggtgtgagcc accatgcccg gccagtttcc tttttttaat 300
aatatcttgg cctatctttt gtatcataat tctggcctca tancgggaga aagaaattat 360
ccctcctcct ttagttttct ggaatatatt atgtnaaatt ggtattattt ctccctaaa 420
tgtttantta aaattgccca ccaaaccctc tngnntttna atttcccttt ttnaataatc 480
ccantttttt aaaattgttt tcctttaaaa aanaaaaggg aa 522

<210> 9892

<211> 519

<212> DNA

<213> Homo sapiens

<400> 9892

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ggcaactttc tggattact tgtaaacact ggttccttca actttctgat attacttgta 60
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caccacagca cgcttctggg gtccaggana ccgccttcac tactgtgctg gccccgcctg 180
tgtacgggcc ccggggccgg gccatccaag gtgcctgtgg tgctcacacc cccatggcgc 240
tcttctcgct gtctttgggg ctgggctcct ccggantctt cttcatctcc caaccctga 300
accaagtgtg tgcggaagac cgcccaacac catcatttnc tctccacaa aaagaaactc 360
ttggtctccc centantaaa acaacnggcc aacaattttc tnggcacaaa ggcctttggc 420
cgtgccccaa naatttnttg gttcacgga atggttaaaa ttaaantttc cattcctntc 480
ccttnnccca atgggcaaaa ccaaaaagg gccncccaa 519

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<210> 9893

<211> 568

<212> DNA

<213> Homo sapiens

<400> 9893

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gcttccaaat gcaattcttt taataaacag taacaaattc tctgttaaga tgtttaaact 60
gagagaaaaa aaaaaccag taaatccagc ttttaaaaga aaattcaata aatagctatt 120
ttacatggat aaagtcatag tggtaacatt tatgaatgtc acatcaagca tgcacaaaaa 180
tggtattata catggcagaa gtagtcagaa aatattgaat tagatctaaa aagatatgaa 240
gaattttacac ttatatacaa aaatcttgca aattattgcc tcnttttaac aaggaattaa 300
aagtaaacad taccagctag ttagcactct ctaagaaggg taaaatcaga ttgacattta 360
aaaatctatt aaactagctg gaatttattt ttctctcata ccattttccg ggattttggg 420
ccaaaatctt tatttaata actaaaagtg tccatccact tgctgataat ccaaacttta 480
nataaaaaac ctggtttccc ncttntttcc anaaccccc catggcttaa ataactgaat 540

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nttttctgct cccccncgaa aaagggng

568

<210> 9894

<211> 589

<212> DNA

<213> Homo sapiens

<400> 9894

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 caatcttgnn tcaactgcaac ctctgcctcc caggttcaag cgatcctctc accttggcca 120
 cccgagtagc tgggattaca ggcatatgac accataccca gctaattttt ttgtagtttc 180
 agtanaaatg ggggtctcacc atgctggcca ggctgggtctt gaactcctga cctcaagtga 240
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 ctcttttttga tttctttacag ttcatatgaa nagaacaaca tttgtgcaat gaaatgtcca 360
 tgaaacaatt taaacccttc acaaatttta gaaagaaact aaggacaggg atttttttta 420
 tgttacacta accccnaagc attatcttta tacactaaat gcattatgct atagtaagaa 480
 taaattccaa tacngctatn ttttttttaa aangccaatt ggaaaaaatt tgttttctccc 540
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<210> 9895

<211> 581

<212> DNA

<213> Homo sapiens

<400> 9895

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 caacctccac ctcccangtt caagcgaatt gctggganta cgggtgcata ccaacatgcc 120
 ctgctaattt ctgtattttt agcaaaaana gggttttacc atgttggcca ngctgttctt 180
 gaattcctga nctcagggtga tccgcccacc tcgaccaccc aaagtgtctg gattacaggc 240

gtgagccact ggcgccagca aattcttact tticatatgt tgaacgtgca tgcaagtgtg 300
 atcctctagt tttcttattt tctccactt tacaactctt tttgtcctcc tccgtgggag 360
 ttttctcaac tttatcttcc aaccctctaa gaatttaata ttctgaattt ccaactcttc 420
 tatgaagtgt ttcatattct aaatttctan aaactcttgt tttctgggcc tgctttttca 480
 taacancett tcttgtttca aaaatcaata cctttattct gaaaaaacat ttactttttt 540
 acaaaacttn tcnccccg nantttttcc attccccnn c 581

<210> 9896

<211> 472

<212> DNA

<213> Homo sapiens

<400> 9896

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 gcccctgaca gacaaggatt cacagccgac ggaagtcagg gaggtccct gcaaattctt 120
 catctccgcg gggcctgccc gagccctgat cctgcagagc cgtggggctg aggtagccgc 180
 cggttgtggt ccaggagtgc gtctttctgg atgcggggca ccttcatttc accgtagcaa 240
 ccgggtacca aaagtagaag cggatttttg gaaaatgagt cattaggtcc caaagagaac 300
 ctattgcaac atggactcca taacgttctt gaggatcatc ctgagaaact gatgtctctc 360
 gttagacaaa aatgcacgat ttgcttgga aaggggagta aaaatggtgc tggcatccat 420
 tggctggctg ggaacttgaa ccagcagctc caacaagcga catgtnnnnn nn 472

<210> 9897

<211> 558

<212> DNA

<213> Homo sapiens

<400> 9897

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aaataatgtc aaagtctgtt acataaaaca taattatgaa acattttaag tcttatcatt 120
 caaactactt aaaaggntca aagtcacaaa anatcaagca aaactgcccc ggcaataaag 180
 tgcacgaggg gagcccacct ctccagcggc cgtcagcacc canagccgcc agctgagggc 240
 tccatgccga atccatacac aaggtttgtg gttctcagaa nagttttcag acaggaactg 300
 tttccaactt aaaatctttc aacagacaaa tggangtgga anggggatgg ttacacaaa 360
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 cctctttaga aatatcctgc ttgganaatg ttttgacaac cacccaattc tccnaaaacc 480
 ttntccccca aaatactggc nggacncnca ttactttgct tttcttatta aaaaaaattt 540
 ccatttgaa nccctttt 558

<210> 9898

<211> 542

<212> DNA

<213> Homo sapiens

<400> 9898

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 aacttccgcc tcccanattc aagtgatttc tggctaattt ttgtattttt agtcganaca 120
 gcatttcgcc ttgttggcca ggctggtctt gaactcctga cctcaagtga tctgccccgcc 180
 ttggcctccc aaagtgctag gattacaggc gtgagccacc atgcctggca tttttccata 240
 tgtctttgaa caaattatta actctttttc accttggttt gctttctgga aatggggctg 300
 anaataccta actcctagga tacgtcaaag gattaaatga ggcaatcagt aaattgcccc 360
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 atgtcaaggt gccagcattt cttccctcaa tggcttccct ccagtanaa aatnttcac 480
 tccnaaatt taaaaggcat ggcggtnggg ggaanggaaa attgggnatt nctttaactt 540
 tc 542

<210> 9899

<211> 461

<212> DNA

<213> Homo sapiens

<400> 9899

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aaaagaaaat catgtacaga ttttatttct gntgaanac acaaaacaat ttcaacctct   60
gggggtcaaa ataatttaag gatcttgccc ttgggggttt attttctggt tcnactaagg  120
anaganttca gaanggntag cttcccttgt tacgttttta aacatctttt tcatttggtta  180
gaanaacatt tcaaaagccc naattaaatt atcattaaaa tactttgaca ctttacaatc  240
ttccaagtgg aatttaagtt gtatgccttg atactgtagt ttacagttt ccccatcatt  300
ggtaaatatt cttctatgat gccactataa tgctactggt agaaaatatg tgcatataat  360
ttatcagtat attttcntgt taaattttat aaaaatctcn aagttatgaa nanagtttta  420
cnccccncn aaactaagtg ttgccaact attacccta a                               461

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<210> 9900

<211> 554

<212> DNA

<213> Homo sapiens

<400> 9900

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cctngtgcag tcaacaagtt tcattttagt tgtgcttaca ttatataact gaagcctgaa   60
cactgattgt gtttttaatt tacacgtttc aagaaaacca taattaaata ttcaccatat  120
acaacaaatt gaacaaatgc aacaaatact catttgctcc caagaaatta atctatagaa  180
aggaaacatc tttttaaaaa gttgaacaca gtctgctatc caggctacaa gtacatattt  240
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cattttaaaa nagctccata ctaagttttc aggtaagtgc taaacagttg gccagtagca  360
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tgatgggcaa ggcaaaatga aacatctttg ttcacccatt gaataaacat tgtgttctaa  480
atgccctac tttctaaata cccacccatg gaatgcaatt atttaaaaag ntggttttta  540
ggatcattat cctt                                                         554

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<210> 9901

<211> 437

<212> DNA

<213> Homo sapiens

<400> 9901

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ccattgaana gcgacattca ttctggaatg tttgttttga aaacaactct tctgggggaa 60
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aaaagacatt aaatattatt aaacccccaa cttccaaaac atagagaccc ancaaactgg 300
gctagtggta tctcagtaca cagtcacaca tgactagact agactagact agactagact 360
agagatctga gtttgcaacc aagtncaana ngctctttaag anctcangct aagggangcc 420
tttattcnaa tgccttg 437
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<210> 9902

<211> 518

<212> DNA

<213> Homo sapiens

<400> 9902

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gataggtagt cagatTTTTT attttcaaac gtgccaggta catttcccac ttttgaataa 60
cagcaaaacc ggaanangat gctttcacac ataataaatg ttctccatcc tttctgaaat 120
gcaccaaagc aaaaagcctc tgaagtcaaa acatgagaca taattccttg ctcatgtcag 180
gagacatgca ggtgccccct cctttaccca ataccaagag acanacggcc gggcagggtg 240
aaggcgggtg gcgctgcagc tgacatggag aanagtctaa atctgaagac acttttccac 300
acttaggaca agttcttcac tttcatgctt tattgaaagt agaatatgaa tcaaagacag 360
gcattggtaa gcaggttatg tctctaaaat tacttttctg tcagancaga atgttgtccc 420
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atctacttga tacaatcctt tatggaccaa cncntctngt ttgaaactcc anccaggaaa 480
 ttttaccgaa cttttttccc cnccccnan taataatc 518

<210> 9903

<211> 469

<212> DNA

<213> Homo sapiens

<400> 9903

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 cagaagacag aaaacattta acaaatccaa agcaattaaa aatagccaca aaaaaagaga 120
 ataacctaga ctgacagctc acagagcaag gaggtggcag anacctgccc aggtgagctt 180
 ggctgttgcc cccagctcaa tcttcctcct ctctctctc tgtcccttca cctctgatca 240
 gtcccagcct gattcccggt ccctgatgcc tcaccttctt gctgccagat gcctctagga 300
 actagggtcc ttcagactcc agatgccctg gcctgggcct taggacatct tgacttcccc 360
 agtggacagc tggacagtgc cctgctctca cccacagctg ggacctgaac atgccatgag 420
 gccctgtntt gaaattgttt ttgggtnggg anggtncnccn naatttttn 469

<210> 9904

<211> 556

<212> DNA

<213> Homo sapiens

<400> 9904

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 ccttagggtc acaggttttt ctctctatct gtttaggaat aacagcttga aaagcagtct 120
 ctcttttact tcccaggagaa gagaactgca cagactgaag tggttcactt agttcaactt 180
 catcttcttt tagtatctgt tgagaatcct tgtgcagatg angagacttt ggtgaaacta 240
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cttgctgaaa gacagtatTT ttctttttca atatttccaa gctgtctaaa gcagtactgt 360
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ttctangatc cagtattgtt tgnctctctg gcagtttcaa cctcaacatg gtccgggggg 480
tggaattcta atctttcccc aatcctccag gtccnaaaaa aagttcctcc gtntcttngg 540
aaataaaaac tttttc 556

<210> 9905

<211> 509

<212> DNA

<213> Homo sapiens

<400> 9905

aaatgtaact ggacaatatt taatcatata cactatttac atgtaattta tgtcataatt 60
ttcttaacat tcaatttcca agcctttgct cttggaaagc ttcctggag cttctgggag 120
gttatgtggg ancacagcct tatggcagga ggaaaatggg gaatccaagt caggtttcgt 180
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cctgtcaatc cctgtgagca tgaggagtga tacatacttt ggttctgaaa aaanaaatgg 300
aaaaaactac aggttcctct gctggcaaag ggaangggc tttccctgan aaaatccgtg 360
aaaaacaaaa attcccatct gcttgccttt gcccantgca tgactgaatt cctcctttgg 420
ggaagaaaga aagcccctnn aaggcaaat cccctctcct cccaattntt tttgnaaaaa 480
ttctttccaa gcttttnttt naaagcacn 509

<210> 9906

<211> 589

<212> DNA

<213> Homo sapiens

<400> 9906

atttgtataa tatgtctttc aattacaaat tcatctacag tagaaacaga agggaacata 60

aaagtatgat ctactttaca gtaagctgtt tttaaaataa aaattacaga tcaatagtga 120
 aggtgaggaa atttaactga naaaattttc aaaatattaa aatattcaaa aacattgaca 180
 catgaataat acctatctta aagtaataat aataaatgac atgtgtatac aaacacattt 240
 aacatgaatc aggatttctt gttcttgatg tcagcaccta ctgtctaacg ggctcgagaca 300
 aaatactgtg ccttcaagag ttagtcccat tttgaacccc tctgcatct catctaattt 360
 tgattgaata tctggaggga aatctgctgc tccacagtta aatgggtcaa aaagttctgc 420
 tccaaacaag tcccgtttta tctcaataaa tctctaagtt ctggaagtgg tgtntnccat 480
 tgccaattag gctccaaaaa aggtgtnatt tngaaaaaat tgaatcnttt ccaaaatttc 540
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<210> 9907

<211> 595

<212> DNA

<213> Homo sapiens

<400> 9907

aaggagaaaa aagtataaaa atttcttttc ttattacaag aattccaaga tgtgtcagag 60
 ttgaccagaa gcatanagaa aactacatag tcgagtaccc accaggggaa tgttggtanaa 120
 ttggcagtct gttggtctct ttgtaatgtc agattaaaga aatcacctgg aggctgacat 180
 tggccccttc ccttcccagg aggcagatct ggcctaaata cggagatgcg tncaaagaag 240
 acctaggatc ncaatcgttc ttagccatca aactcttctt ccaggtccta gagaaagtgg 300
 ccactctata ccaaagccaa agaactgcag agtactcctc ttggttgggg tttcatattg 360
 ctcttgcaat tcagtttcct ctcatctttg ctgtcatttc gtgggtacca acagccttgg 420
 ccangtgtga gaagtgtcca ttactattgt ttgctctgac tatcttgccg caagatccca 480
 ttaaggtgga accaanggcc tggatgatctc ttgccttggg acanaataat tgggtgggtgt 540
 gtttcctntc cccccgttgc ccccgttttt tcccnaggg cgttnaccnc aattt 595

<210> 9908

<211> 389

<212> DNA

<213> Homo sapiens

<400> 9908

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agtggcaact ggtatatttatt acaattatat acagtcctat cttccgttct gaggtctata   60
catgatcaca caaatgaaca tgtgtttcct ggggggaaag acaaaactgg ctgttgggtca  120
ngaagccctg ctgcctggct cctcctccgg agtgagcccc catctcgcca tgggattagc  180
tgaaccatta cacggcaagc gggggcatcg gaagcgcanc gtggtttcat ttgtctggga  240
agacaacggg gcatnaatgg ggttggggct ggggacaagc acctgacggg tccaaggccg  300
ggcccagggg aaggaagggg atgcanacac canaaggacc ncanctcctc ctccactnaa  360
gaatccggaa gcantangga cctactctt                                     389

```

<210> 9909

<211> 573

<212> DNA

<213> Homo sapiens

<400> 9909

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gcaaatatat ttatTTTTtT tttgtctcat acacacacag aaaaacagat aaaaatctag   60
cctgagattt aaaactcact aaggaaaaaa aatcacagca aaagcagtag gttaacatca  120
ggatatttat attcaaggnt ctatggtatc aagttttttt tctctttaga nccaggcatg  180
gtggcatgca cctgtggtcc tagctactca cgaagctgag gcaggagggt tgcttgancc  240
ccagtgttg aggctgcagt tagccgcgaa tgcactgctg tactccaatc tggaaaacag  300
ancaggaccc tgtctctaaa aaatttgaga ttttttaaag tccatatttt tttgttattt  360
aaacgtggta ttattcaaca ttgatgaact tgggtcgtga gttctaaaag ggattcaaaa  420
taaaatggca ttttcactti tttaaaatta agatactttt cntgatcaaa aatatgtttt  480
tgttcccccc ctganccccc tttccaggtt ggttaccaac ttncnaaatt taatttggct  540
tatnctccaa anaacctttt ctttaatcnt tac                                     573

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<210> 9910

<211> 569

<212> DNA

<213> Homo sapiens

<400> 9910

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aatttttact ttttctcaag tttaatgtag acatacaaga aaacatcaag caatgtttat   60
tgtgcaattc caatcattat ttgcagaatc ttggttttaga gtcagtcttt atagccattt  120
caactgcttg gtttaaaca aaagcaaca tctggttatc tacctataaa tttcacggta  180
tttctttaaa cactgaagta ctaaaagcac tgatgatttg tattataatt tttaaaatat  240
ttaaaaccta cacagatttc atagatcatt ctttttataa aataatcaaa ataatttgat  300
tatctggaaa aaaaaattct tgaaacagag ccctttccag gtatcttcaa tctctgtaaa  360
accccaaacc ccnaacagag tagatgatga aataaggatt tctcagttgc ccaagactgt  420
ctgaaattta aggtganaaa tggactggcg tttttcatgt ttcctgtgaa ttcaaaactt  480
acaggtggga tcanaactcc atctctngga anggtttact tggcttcctt ttgaattggg  540
tcctttccat tggctccttt cccactcct                                     569

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<210> 9911

<211> 549

<212> DNA

<213> Homo sapiens

<400> 9911

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gttttttttt ttttaactgat gtgccagttt tttgacacct ttattcataa gtcaatatat   60
ttgtcagttt gaatgttata cacatgataa aatagattat gagaagtatc atattttacaa  120
taagaacact attttatata actgactcac caaatatgca acctcttgca acaataacag  180
aatggactca actccatcct ttgaatagac caatttcatg attctcctaa aaagttttga  240
gttgagtata gttccttggt gcttctctct gtgatccaga gcttaagaat caatccctgg  300
aaaccagcca ctggaaccag acctctccag aattgagaag agacagcctt agaaaaaagg  360

```

acacaaaccc aaaagtcttg agcgctgtgc catatgcttg atttcaganc attcaggcac 420
 tcnaggtcaa gtgtgggggc atatatatat atgttctgtc atctcaaag ccacnacngg 480
 ttcagttngc cgggatttcn aaaaaaagaa gctttcctgg aagaatgnat centcccccc 540
 attttnttt 549

<210> 9912

<211> 515

<212> DNA

<213> Homo sapiens

<400> 9912

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 tcctcagcct cctaaagtat tganattaca gctgtaagcc actatactg gcctcaaaat 120
 tatattaatg tctattagtt aacttgaatt gtttgtgctt gtcttggtgg ttttaaccct 180
 acttatatac aagaattcaa aagtattttc aagccctatc atttagttgt aaaatatacc 240
 caactcacat ttatagactg ccaactaact tgaatgtttg tacaggcatt tctgctgtga 300
 tgccatgtgt acctaaataa aactcacact ctataaaatc acacactaaa ttaaattaac 360
 agggtatag aaaaaagant tataggetta cctctcaaaa tctatagact tttgtgacta 420
 gaaagcacta aaaaacagca ataatacct attaacngtt ttaccggtta atctctccgc 480
 nanaaccn aatncngggg aatncttgg cacct 515

<210> 9913

<211> 510

<212> DNA

<213> Homo sapiens

<400> 9913

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cattctgtga tatcatagtg gtaacctgaa atccaccata gtggggacat ttacacaata 180
 actggcaaat gctacaaggc tgggcttttt cagttttgtt gattgtctgg acataaaaag 240
 gtaatacaga aaatgttacc aatacaagca tttgggaaaa ataaactaaa accttttgtg 300
 aaaaacaaca ggttttatgg aatttacaat aaataatact gtatatatta ttatttataa 360
 attctgtgct acacattcct catatcagta aaacttaaaa catatatatg ttatccatac 420
 attttgtttt ctanaaancc actgggtgaa cattaaccaa cacactactg ggaatttccn 480
 nccnccaaag tttttttagg tnggggangg 510

<210> 9914

<211> 554

<212> DNA

<213> Homo sapiens

<400> 9914

gactgaaaac tactttatit gaagacattt tcttctatag ttctaaacac aaaaggaatg 60
 ctgttatagt gggtatttca taggcattct tgtattcaaa tgaatcacat aatgtttaca 120
 cttttaagct agacttgaaa ttgaagactt aatacaacct ttaacaaag aaagtatcag 180
 tcatatcaaa acataactat tcattctaca gattatcact ttccctaaaa tgactactan 240
 atatgaaaac attgcaggga cagctcaagt gccccattct taagggtttt ttttaatagg 300
 aaaaatgaca acgtaaatac cattttcctt ttctttacta gtaatgaact atggcaatcc 360
 atttgagaaa gcaccageca accgtacaag tcatttcagc accctttgct cttcnaaact 420
 gaacatcttt tatatttaat gcttcngtt tgaataaaaa tgggtatgtt tanttcaaaa 480
 ttccccacct ntttatngg ggtttaatta aaaagttttc cccnttcccn aaaaaattaa 540
 aaaattcncc cgnt 554

<210> 9915

<211> 497

<212> DNA

<213> Homo sapiens

<400> 9915

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gggaatcacc attttcagtt tttaatgtta aaggggctaa cactgtatgg gactcaagac   60
tggttttgaa attctctttt acatcagtca taaataactg attgttaaca ttatttaatt  120
tctgtgttag attttccacc aaactctgag gttcacaagt tggaattaca ttggaatgag  180
ggtagtant  tgggatttca acactctttg ctatgantcc cattgttggt aagtcacttg  240
ttaccaagtt ttgggaancg ttaggtgcaa ttagtggagg agcaactttc tttcttctct  300
taaaaacact gtttcccctt tttattttaa tgactggatc ttgtgttctg aaggaccact  360
tntnacanaa acacgaaaac tgttactggt aaaattttgt gatgggcccc cncaattagg  420
aaatgaacta aaacacaaaac cntttccnca gtcctccant attaattcct nccttggaag  480
aanangcaaa ctgctac                                     497

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<210> 9916

<211> 520

<212> DNA

<213> Homo sapiens

<400> 9916

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cagtggattt ctcaacaagt cttttcaaca gtgatacaca atattcttcc ctttggaatc   60
gggtgctgta aataaacatg tinctatatag ccattttcca atgcaacatt agagtacana  120
acaggatttc tgtggctagt gagtaatact gctgctgtag ggtgcataca cgtaggatac  180
ggacnangat cttactcagg attgcatcgt antagggaca naaaaccatc ttgttatatt  240
tgaccaggcg agcaaattta atagcaactt cctccagctc tctctgaact ggactgagtc  300
ccccagggac tgtgggcaat ggcttctgat gaccnaggc aaggtaggtt ctaaaaagtc  360
aggattcnan atcccatgat cctgccaatg gggctctcggg aactgggcca cggccttgat  420
ctgggccttg aacaccggct ccttgttctt ggtgaaagga aaagaccccc ccnggaaaag  480
cngcttgctc ncctcccagn cnancttctc cccatggtat                               520

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<210> 9917

<211> 543

<212> DNA

<213> Homo sapiens

<400> 9917

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gaggtacaaa tccaacagag ctttaatccc aaagatccag tggccaccag antacagaag   60
tcagaatcaa atgctcagaa tcaaaagggtg tggcactcct gccagccgg cttatcagca  120
gttgtataga cagatcagaa aaaactagca ttattataa aaactgtttt tcaaatgggg  180
tgatttcctg tccttctcca nanatcataa ttcttcacgt ttctgaggac cttctcggct  240
tggttctttt gtcttctctt tgtacagtgc tcccgtttct ttctccttct gaaagcggat  300
ctgtagctgt ttgatctctt ggtcgtagtc ctgccactcc gggacaatcc gcacagctgc  360
ttcccagttt ccgggctctt tgggtctccg gaattattac acaaatcaat gggttttgtc  420
cttttcttaa aaaggcgtca tcacaccacg ttacacacca aaaccattct tagnaaggang  480
gatttaattn gcacctgatn aatcattttt tnggcnatc ttnatcaaaa ttgaaagggtg  540
ttt                                                                    543
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<210> 9918

<211> 575

<212> DNA

<213> Homo sapiens

<400> 9918

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gtactctaag gnttttatct ggtgacatct ttccacagat aaatgtaatg tgtatcatta   60
cacttacatt gcttttatct agcacaaaac ctctgatgag taagttcata gtagttatta  120
aatgctttgc cacattcttt aaaatcagaa ttttctcag catgaatttt cttctgtgca  180
ataagctgtc agcaatgggt gaanacttcc cccacattct tcacatttgt agtgtttctc  240
tccagtatga attatcttgt gatttcaatg ccttgagcaa natttatgga atttgccaca  300
ttctttacat ttgtagggat ttctcttag taaaaattct tacntantaa nggtngaagc  360
agtgattaaa anctccccca cattttttat acttgcnnga ttctctctc tttgaactct  420
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cttatgtttc attaaaatgt gagcaccgtt taaaancctt gccacattct cccatttata 480
ncgtttgang gcagtatgaa tttcctaag tctagtgggt gtgaccccgga ataaaggntt 540
tncccatnct ccccgttgn gggttccnc catat 575

<210> 9919

<211> 500

<212> DNA

<213> Homo sapiens

<400> 9919

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ataataattt acttaattca ttatcatcag gaangnctgg aattaaaatt cttgattttg 120
agtttataac ggtttcattt cacttattac ctctacatat gatcatttta aatgtcagac 180
taattgaact actgaattga atgcaggcta ttagcattaa atgagactca tgcaatagaa 240
tataaaggta ttacactgtc cctattttgt gcaactgttta ataacttag gtacttanaa 300
tttttagatg tgtntctaataaatat tttt gtaaatacgt cttgaccaag tgttataaat 360
gtttctnaca gatataaana tcatttccaa agtttactct catanatttc tgatacgtgt 420
aaattccaat gttacctcat aaccanccaa atattccaan tctcanaaaa tgcaaaatta 480
caatantccc tgtttncccn 500

<210> 9920

<211> 457

<212> DNA

<213> Homo sapiens

<400> 9920

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gaacatcttc caaatctagc tgtgtaaatt tttctttatt ctctcaata aattttgtaa 120
ttttattcag tttcttttct gtatctttta catctttatt cttagctttc atttcatttg 180

atagtatatt gctcttctca ttaatttctt tggtatcttc atgaattttt tccttttgag 240
 tttccatttc agcaattcgt ttctgcaact cataactccc aacttaaagc aggatactaa 300
 aaagtcaact tcaatgaatt aatatgccta atttaataaa ttcaaccctg gtgatcaacg 360
 ggangaacag ggttcncacc aanaaaatnc cccacattgg aataattcca cccataatnc 420
 cttttttgtt aaaaannggg tctggcatgt tgcccag 457

<210> 9921

<211> 507

<212> DNA

<213> Homo sapiens

<400> 9921

attattatac tttaacnttt anggtacatg tgcacaatgt gcaggtagt tacatatgta 60
 tacatgtgcc atgctggggg gctgcacca ntaacttgtc atttancatt aactatatct 120
 ccnaatgcta atcctcccc cccccccac cccaaaaaca gtccccanaa tgtgaagttc 180
 ccnncngt gtccatgtgt tctcattgtt caattctcat ctatgantga gaacatgcgg 240
 tgtttggttt ttgttccttg cgatagttaa ctgagaatga tgatttcaa tttcatccat 300
 gtccctacaa aggacatgaa ctcatcattt tttatggctg catagtattc catgggtgat 360
 atgtgccaca ttttcttaac ccagtctatc attgttgtac atttgggttg gntccaagtc 420
 ttigtatttg tgaanaatgt cncaataaac atactttnc tgttttctta ataccaccan 480
 gaattaaaat cccttngggg attnccc 507

<210> 9922

<211> 529

<212> DNA

<213> Homo sapiens

<400> 9922

cctcaggcac tttttatttc atgctgtgcg ggggcccttg tcccaaattt gtggccacgt 60

gtccangtgt ctgggggant gggccaaacc tgaaaaaaga aggccctgct ccaaaaatcc 120
 ccangttgtc cctgttgacc tatagggang tctgacttca ggcgttgccc tctgacccg 180
 tgagcagtc tgaatcgctg gctcctattc tgtcacacgg ggtgggtagt gccaaaanca 240
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 tgagggtccat ggtgccccctg actcatgtcc tggctccagc caatanccca ncccccatg 360
 gaaangttcc ancatgtgca aaaatgcaca ttggccangt ggctgcccc cggaaacatt 420
 tttcaaaaaa gcaggggtca ggtnacccaa ttntccaaaa tctcatggaa aggtcccacc 480
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<210> 9923

<211> 544

<212> DNA

<213> Homo sapiens

<400> 9923

cagagtcaat aactttatta gaaaaagatt aataactaaaa cttttcaatg acagagacaa 60
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 tagagcagag ttgtaaaaat gaaatccac ttagtctgat tcacacgaat actaacgttt 180
 aatcctgttt tcaaagtcca agattgaaaa cttgcaatta aacactgagc aagccacatg 240
 tttaagtaat atttcttaaa aagtcttaaa gaaaaaagta tgatacagga cctaagtttt 300
 cagtggcata tatattatta acacatgttc tgaaatctgg taggtcacat cagtcctgaa 360
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 ctatagcttt ctttccctca ctttttaaat gtcgatcttc actctatgcc gtncctggta 480
 ttctnccaaa aatctcnaac agtatncccc ngctngatcn gaggtcttat caaatcagtt 540
 taat 544

<210> 9924

<211> 366

<212> DNA

<213> Homo sapiens

<400> 9924

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acggggaaga gtggactcaa tttttatttt tgaaacctca tgcacagagt tccttatatt 60
ccccagggtcc cacaagagta ccagggtgcca tticagaacc acctttctaa acctctgccc 120
accactgaa agcaacacgg cccttcacag cctggcttcc ttcttttgac acacagccct 180
tccgctccag tggagaatcg ccaaagatca tgaagggtaa atagtctcct ctgaaccctt 240
ggtctgggaa acccgtttca accccggggg gagcccantg gccactggtg ctgccaagg 300
gctgctgtgg ggcanaaata acacacanaa gaaaggtngg ggtggnagga accctccan 360
aaanca 366
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<210> 9925

<211> 571

<212> DNA

<213> Homo sapiens

<400> 9925

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aaaggtaaga ncactttatt cttatttgaa ccacactgta ttgttgatta ccgantgtga 60
aagtagtatg ttcagantct tgttttatgc cttttagct gtgttgccag catttgaagg 120
taactcctcc acataagcgg caggaaaatg gccttttttc ccattcaaag atccaaacca 180
ccatccttct tcttttttct cgtgtataat cacaatgtca cccttttcca aattcaactc 240
atcatcttgc ctggcttgaa aagaatacaa ngccttgcaa agtctgctgc tgagctgggc 300
tgcaccaggg gctggagtig aaaaactgga ttgctctgcc caccanaaga tgccttgctc 360
acaatattct ctaatctctt cattaaaaaa ggccgagata tttcacata gctatgagta 420
tgctcctttt ccctcccctg aaanatggaa ttactacnag gatggctggg ttgaagtctt 480
tgctccaatt tctgctacat tgataacagt ttgttgatt cncctccaaa aggtctatct 540
caaattgtcc cncncnttaa cncnctntt t 571
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<210> 9926

<211> 582

<212> DNA

<213> Homo sapiens

<400> 9926

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gctcacggcc atgatttatt acagtgaaag gatacaaaac aaaatcagca aaggaaaaaa 60
nacacatggg gtgaagtcag gggaaactaa gtgcaagctt ccaanaatcc tccgccagt 120
gaatcacaga ggatgagctt aattctccca gcaaccagtt gtaacagcac ttgtgaaaca 180
ctgtcaacca naaaagcttg ttagagactg agtgcctggg gtttttactg ggagctggtc 240
acaaaggtag tctctgcctg gcacatacca aaattccaga ctcccagaag gaaagcaggt 300
gttcaggaga aactatattg ttttacagtt tanatatant aagctacttt gatcagttct 360
gggaatggtg gaagccccct gaactccaag ttcccanatg ccaatcaagg gccaaccttg 420
taaagcaagt ctctaangtt aagtantcag gtcgcttcat taacactttt ttctgcacag 480
caattttatc tcacattttt tcctccatgc ccataaatac ncatttcctt aattntcttt 540
aacnagttta ctatctcggg ttccccccta ataatccaat an 582

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<210> 9927

<211> 582

<212> DNA

<213> Homo sapiens

<400> 9927

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acactgcttg cactttatth tgtacagaca ttccattaat tattactcaa ttttgagggtg 60
caaaccttct gaatatagct ttcatthtgg accaaacaat ttgttatggc aataaataat 120
gatgcattga aaaaccaatt tttgtatthg atttaatgca ctcttacatt taagaaatta 180
tatatacatt cttgaatttc aacttaccaa aatagaatag cttttattht acagcctaag 240
cttttgthtt cctgacaaat actgaaactt tttgttacat taatgctgca aagttgttht 300
tcacctcaac tttctcactg ctttgctcat aactaagtgt gattacatgg agagagaaaag 360
ttttgtaaca gtaacacatg atttagagtt taaaatcata tcagaaagat gggaattatt 420

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taaatataacc ttataaaaat aagtggctta atcaatgaaa aaaaaaccca ggggtttttg 480
gcttataatt anaaaataan tntatcctta gttatagtta attaaaaaaa tcaccaccta 540
aaanttaaac catccgaant tttccttacc gaaaaaattt tt 582

<210> 9928

<211> 580

<212> DNA

<213> Homo sapiens

<400> 9928

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aatgataaag gaaagaaaac aagctttcct ttttaagaaac caaagagcac aaaataagac 120
tgtttcatta tacataatca ccacaggata ttaggcactc tgacagggtt aggcaanatt 180
cttgggtgtga ggtgaagcac aggcacttta tttgtacagt gctgctgatt ctaatTTTga 240
aggtaggtat tataaaagtc tttacttgtc accttatttc tggccccaac acagcagcct 300
atagttttaa aagttctgtt tctccctggt ctttgttcgt atacacatcg aaagtaactt 360
aaaaacaagg atccaagggg gccatacttc atatgttata taaatgttaa tatgagaact 420
caaaagtagg cagattatat gaatacatat tcttacctct gctacaaata aaaacacccc 480
aaacccttcn tcatactttt attaaaattc cgatnttaac tgttnccttt atntccattc 540
ctnaaaattt ttattgctta atnaatccag atntTTTTtt 580

<210> 9929

<211> 418

<212> DNA

<213> Homo sapiens

<400> 9929

agaaaggcag atgatttctt tattgtnaag acagcagtta caaaagagaa taaatatgac 60
attaggatat atttgttaaa aatacaaaa aaacccttag tatttgtag caaccccnag 120

aactcacaag tatgggggat aagaacatct acagctggat accctgaaac agatgttata 180
aactggctaa tggtagtat ggccatgact ttggggatgt ttgaaaggcc ctgcatctgt 240
cacttgggaa cgtcagcggc ctactgtaat acaatttgca cagagtcaga gtgaacagga 300
acccttttac tcattggtat cctaactatt ctttcgttct tacagtgaac ttattacagt 360
atttaanaan tggggaaaaa ggctgaactg ggaaanacnt anacggagcc nngtttaa 418

<210> 9930

<211> 604

<212> DNA

<213> Homo sapiens

<400> 9930

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actgcaatat atttcttttt atttattatt acttagaaag ttacaatgta ntgttttacg 180
tancctttct ttaatagcag atagaggaca ttttgcatac aaatacaggc agaaaaaaaa 240
ttaacacatg acttttttaa gtaagaacaa gggaagacac caaatctaca acttggagtt 300
gagagctcag ggaattgttt tttcttttaa taggtgcttt cttgggtatg acatggcctg 360
ataaaagctc tagactttgc agactgcagc agcataaagc agtttccaat gcaatggatg 420
aanatngatc tgaaggtana aaaggtgten tggctttccc ttttatatta aacaattttc 480
ttcntttcca aatatctctg ctgccaataa aaancctggc cccnaccccc ccantattc 540
caaataatac cattccactt ttaaccccn ctcgggccat tccccttaa aaaaccccn 600
naaa 604

<210> 9931

<211> 519

<212> DNA

<213> Homo sapiens

<400> 9931

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aaagcaatta agagagctca aataatgggt nagaaagaat acctcaaca ctgaattgag	120
ctagctgaaa ttttgctcat tatgtttgt caagaacttt aattatctct ttacagggtt	180
tatgccagtt acatacaang atcctgcata tctcaaggac cctaaagttt gtnacatcag	240
atatcgggaa taaattctat cacgttacca ctaataaact tattttacag taagtgggtg	300
tatgatgcca atactgactc aaaccaacct ttggatanaa aagtgtttga ggaatgaggt	360
aaanaatgac acttccccct cataccaatg tccattaagc agattgctta tttaaaatgt	420
taacactcnt cncatthttat ctatgttgaa taaaaatggn tcngtgnan tgtcctttan	480
atctgatccc ccaatagctc ctaccataat cccttccat	519

<210> 9932

<211> 486

<212> DNA

<213> Homo sapiens

<400> 9932

gatttaagga atttctttat tggaattcca ctttacctcg ccacaaggga gctggctttc	60
atgacaaaga gagantgagc cctgaacaaa gtattcgta acattttaca acagacaaca	120
tatacatgtc ctgcatgaca tctttacaat aacacattcc aaaaacaatc aaacatttaa	180
caggattatt aagaaacatt aatttccttc tctctagatg actggtactt tagcttttta	240
gcttctgcaa taaaatgcgt tccttctcag catttctatt cataggaatc cctgaatcac	300
ttctgtcatg taagggtcga attcatgttg acgggtgtgt ccattantta ctgaatgtgt	360
caaaatcctc tccacggtag aaccttttat tgtagcataa tgtgtgaata cacttccagg	420
ttatccctcc tccnaattc ctenttntt atgggaattc ntctgaaacn ttnaaaaagt	480
tentcc	486

<210> 9933

<211> 502

<212> DNA

<213> Homo sapiens

<400> 9933

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gacgtaataa tctatTTTTa ttcattTTTaa atcaaagaga ccattccatt tcctaacaaa   60
caggtnagtt acaaaagtag tccattTTTac ttttcatcag tctttccctg ttttgaacaa  120
gtttttttga gaattcttag ttttagTTTT tgtttagctt acacactgaa aattttgaga  180
agcatctaaa aaaatccaca attagtGcaa aaaganggga caatacttta agtcattcct  240
tctataaaaa gaattaaggt tactaaatgc caattTTTaa gcaaatatat agtttcctat  300
ttgccttctg aaagacagca gatataaaaa tagttcaata ttangTTTaa caagggttg  360
aacaacacat gttactatca gctttatTTT acctgcaaaa atattttagc tacacttgga  420
aaaaaataaa cttganaata taacttcccn tttcttangg cngaagccag aatacctatt  480
cntttcctt taaattgnaa aa                                              502

```

<210> 9934

<211> 333

<212> DNA

<213> Homo sapiens

<400> 9934

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gtacactttg ggatttatta agattctaga atttaaaaac aggaaaangt gccattagta   60
aaaactccat cactaacatt ttggtaccac tcgtanagcg tcacataaat attcagacca  120
tgataactca ntgcaggaat gttatcaaatt atttccatgc aatctggaac tangaccaca  180
gctggcaatt gggggtctga aagcccgaca tcccttacgc tgcttcctac atcttgacaa  240
caggaagcca agtgatacta ngtnntgcac tacaacagtg aacataaccc ccctctgttt  300
ttttgccnng tttttttaac naccaaccna aac                                333

```

<210> 9935

<211> 585

<212> DNA

<213> Homo sapiens

<400> 9935

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ctagttcctg taacaaatgt attaaatatt cattctgaga attaatagata ctggcactag   60
atgggtgctat cccatcaggt aagtcaattc ctttaaaaac aacattcgat ccttctgatt  120
gtcgtaaaag actagtttct ttttcaagat ggtctatctt taaattagct tttgccaaact  180
gctgtgaata atttatagcc tctttccgag attccctgag cccctgtctt aattcttcat  240
ttcttccggt aagctgatca acttgggctt tcaaatagcan actcgcatca aanattcctt  300
ctgcattctt tgattctata gcattaacta ntctttcgag gctagggata attananatg  360
tttctcctcc ttttaacatca ggatctttct gcatttccct aattgcttgc aatatttctt  420
tcataccttc ttcaagttgc ttattttctt cnactaatte ttttaattta ttctgaaatt  480
tggttatcac tgtcctactc ctttctaaat ctctttcttt ttcaattaat tctcttgaaa  540
naaatcnenc cttgaaaggt gcnnccccc ntttttgaag ggcca                      585

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<210> 9936

<211> 389

<212> DNA

<213> Homo sapiens

<400> 9936

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cagtagacaa gcaactttta gtttttacia gttatagaaa acgcaaattt tcatagcatc   60
aattttagaa aagaaagatt aaggttccca tctgcggtgc tttttccaat ccgccccatca  120
cccgctccctc tgaagaagca cgcacactcc agatgtctcc ttcatlgatc acatttctct  180
ctggctgtct ctatttctaa gtcagagtta ctcttgctgc tgctgctgct gctgctgctg  240
ctgctgctgc tgctacngtg gtggcgggcg cggtgggtggc ggtggctgcc caagcctcat  300
ggttgtcagc tccatgcctc ctgaacttca ctccactgaa atctggttgg gtntgaaana  360
naccngtgg aatgaangac aanaaaanc                      389

```

<210> 9937

<211> 514

<212> DNA

<213> Homo sapiens

<400> 9937

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gattgtttgg aatttattct cttaaataan aatgtaacat ttgttaaaaa aaaaattaaa 60
agcacgacaa cttggtttca cagtaaacgg caaaaacaaa gttacacaat taaataaaaa 120
ctcaciaaaga aacacaccaa gaactcacia gagcacaagt taaaaacaaa ggcaaaaatg 180
gaagtggaga naangcgggc agtaaacagg cagcagtggc gtgttccttg gcacagctaa 240
tcctctcctg ttgggctctc gtaccgccgc cgggaanccg gctggctgtc cgccccctcc 300
gcaggcaccc caagctgaat ggctccggaa aaaaattgaa accccttggg tgcctgtctc 360
ngaaccttaa aanggctatg gtggaaactc cttttgggga cancctaaga aatgttccat 420
tttcttgccn aaaaanaact gaaagatgcc ctanccnccc naaaaataag aattgggctc 480
aaacggctaa ctcnttggg accnaacagg aaac 514

```

<210> 9938

<211> 466

<212> DNA

<213> Homo sapiens

<400> 9938

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ctgaattgaa tgctgcattt attatagtgt ttttattaac aaactttcac cagaaagttc 60
cgagtgtgtt aatacancag gcacattggc ttccatgttt ggcatttgac agtccacaga 120
attgcacttc actctcacia ttctgccaca actttgtgaa ttatttgggc aagacctaca 180
accagcctcc cccattaaat gattaaatag gacttttggg tcattctgat tgaaatgttc 240
tgagttcaca cttgcatccg tctgtgacaa gctcanctcc actttccctc ctgccttggt 300
ttcantccct ccaactgcctc canattgggc acgtctctat ttttacagaa gtnccctttt 360
tttattctcc ggggtcgcan acactttttg aattacgaat ccaatngctn ctgccaaaca 420

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aaatnacaan aggctctgcc acctttggga aaangcncctc ctatgc

466

<210> 9939

<211> 482

<212> DNA

<213> Homo sapiens

<400> 9939

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 tatacacaaa tataatttta actataaaat cccaactagt tacatttaaa ttattgatct 120
 gtagaagcca atttagagtc ttctagtccc ctaactttac cttccttaaa ttatacaaaa 180
 ataaaatctg atagttttga tttcaagtta aagatgaaga agtggtacat ttcatactc 240
 agaaatggaa cttttacctg tctgtacaaa gccttttaca tgctacattg acacttaaag 300
 caccattaac aagactttta atgttataaa atgtttaatt aaaacctccc aagaatttct 360
 ctttaagatt acgggggggtt tgaacttngt tctaactaga aatngggatg aaaacaaaaa 420
 tttggctttt tntcctnca gtccaacttt aaaatagtcc ttncgtcct nctaatecct 480
 cc 482

<210> 9940

<211> 430

<212> DNA

<213> Homo sapiens

<400> 9940

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 tgaagtgggg acataaccct cttcatcttc atttctccga atgcgggtcc agccatcgcc 120
 tttgtcttcc tctatgacat acaatgttcc tccttcaact acggaaatcg ttccttcatt 180
 ctgaccttca aatgtgtana gagctttgca cgtccctatg gcaggaggagg gctcctcctc 240
 atcaaactcg tcgtcaaaat ccgtggccag caccttcctc tcaactctcct gantctgctc 300

ctctgtgtta ctgccaatct ggggctctca cgggtccttg gggggcaatt gttgaatnnt 360
gggntgggtn ctgggctggt cttaaaatcc cgcctctgcc ggggcgcccn gctctttgcn 420
ttttggganc 430

<210> 9941

<211> 441

<212> DNA

<213> Homo sapiens

<400> 9941

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ttctcttagt tccttcagct gattattgaa aatatcaatc tcctgtagtt ttgatctant 120
ttctttctcc acttcatcca nttggtctcg taggtgctgc cganctagtt cttttgcttc 180
taaggetctt ttaagtgtaa caagtgaatc tctgtgcaaa ctgttctgct gaacttggtt 240
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cngtaattgt tgctgtaaat ggggtgattc ggcaattctc aactctctaa aatttggttg 360
tgctctcaat ttcttgccnc ngggtgggtca atcaacatct gaatatcttg aaaattnccc 420
nnccagttgn aaancttttt a 441

<210> 9942

<211> 395

<212> DNA

<213> Homo sapiens

<400> 9942

cacattctag cactttattg gaacttggtt gtgtacatca atgagatcac atcaaantaa 60
aagcagcatt ttcacacaat aatatccga tatctgtgct atcttcttac ataatttaac 120
aaatcccaan atgctcctga ttttggtatc gaanancttg agtgggtccag aaatatctct 180
acntaaatat aaatcatcac atcnaaata accatcattg ttttagtagg tcccaanagt 240

cctgggaaca cctcttaaaa tataattgcc ntaggctggc tgcataactg gtgggaagga 300
 attaaagggg tacacatgna cctaattaca gcanganctg ggcagangga canacacaan 360
 gggatggggg gcanaaatcc taaactgggc aggga 395

<210> 9943

<211> 292

<212> DNA

<213> Homo sapiens

<400> 9943

gtcattttat tcttttaata agaaactttt gcttacaaaa acaangtgta aaaagattta 60
 caaaaatcat aaaaacatga tttatatttc acacttgaga gacaaaaaca agccccnnaa 120
 catggatttt aatggagggtg gtttgcttca ttttaaaagg gaaaaaaaaa aaaggaagct 180
 gtaaccatac attgatgtta acatagcatg aantttattc ttgaanaatt tacnttggtg 240
 agcgatatta ggggaanaan ccatttggtg ttgcatanca ttttantgcc ca 292

<210> 9944

<211> 535

<212> DNA

<213> Homo sapiens

<400> 9944

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 tacaggcgcc cgccactacg cccggctaatt ttttgtatt tttagtataa atgangtttc 180
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 cccaaagtgc tgcgattaca ggcatgagcc accacgcctg gtcaattttc tttaactcca 300
 tttttatcca actaatcttc aaaacacttt aanatttag ttataccaac ccnaagtta 360
 catctatatt tgtgttntgc aaatcctcaa aaaaaatgcc atccatgcca aaaaatgaaa 420

aacatttttc cccatttaac cttcnaaaac ctttttaaaa aaacaaccct atatttcccc 480
anttcaaatt ttacccaaaa cttcnttaaa anttntaaaa aaaaaanccc tgcng 535

<210> 9945

<211> 588

<212> DNA

<213> Homo sapiens

<400> 9945

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atgtactcta ggtacaaaat aaacattata cacatataan atcagtcttt ccaacttttag 120
aatgtataaa taagaatgac attttaaaat aaaatagttt agtcacagtc acacaaaact 180
accttctaag gaaaactgtc cagtgaancc gttaaatttg tgctttcagc tatgaaaaat 240
taaacttaaa atgcattcat tcttctttta atgaaaaata acctaccctt ggaaacagca 300
taagcattgt tatggtagtc tancctcnnaa atgaaaatgt ggactgagtt acagtttact 360
ggttggtanc ccacctaaaa acccttgaaa aattaccann cgatcaaagt atttacataa 420
tttcaaccct ttttcttang anaaaaggta acacanttcc ttaacctctt ttaaaaggaa 480
ctttgaaatt aaaccttatg gtcncaactt tcattcaaaa atgttgctta aatatcaaatt 540
ttctctcnca nacnccatnt tcatttcctc cgaaacctcn ctggttnc 588

<210> 9946

<211> 444

<212> DNA

<213> Homo sapiens

<400> 9946

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gccaatgaag aaataagttt gtttactcct gtagcataaa aatccatgct tccaaatttg 120
acgaactctt ggaaagcatt ttctgtgtcc tgctagttgt ggaagcaatt tccctgcaaa 180

acgttgctga gatgcctaaa naagtggtag tttgttggca anaggtcagg tgaatatggc 240
 anatgaggca aaacttcata gcccaattag ttcaattttc gaaacgttgg ttgtgcaacg 300
 tgcggcccaa tttttgtent aaaaaaatt gggccctttc tgggtggccaa tgccggctgc 360
 aggcatcgca tttttnggtg cnetcattaa tttgctgaac ntacttanca aatttntggt 420
 tncccctgaa attcaaaaac ctnt 444

<210> 9947

<211> 589

<212> DNA

<213> Homo sapiens

<400> 9947

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 attccacttt tatatttctg aataaagctg caattgcttc tttgatagag ccatttctta 180
 aaacttttgc taataaggct atgtgaactg tgttcanaaa ctttgacaac atgcacactc 240
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 ctaccacaac tattgtttta aataatcaga tgaatgttta tcataacttt ataactcccc 420
 caaattatac ttcagtattt aacatggtag tttcaaaaaa taaatattca agggcccagt 480
 tttaaatttt cctcccatgt tatccacaaa agttgaanaa tacatgtttg ganccecnact 540
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<210> 9948

<211> 295

<212> DNA

<213> Homo sapiens

<400> 9948

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 tcgtcggctc aggcaagctg ctctaaccag gccccactcc agctccagct cccaagatg 180
 ggggttagaa aaacgtcnac atgcagggag ggccacaaac aggctgggct ggcatgangt 240
 atgangtatg aaccncatgg ctgagcaana acctggggcca ggtcntanac tccca 295

<210> 9949

<211> 213

<212> DNA

<213> Homo sapiens

<400> 9949

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 gagtgccaca gacactgcag ggtgaggccg aggggtgcccc gcacggccca gcaggctcctg 120
 cctggcagtt tctgctcaaa aggctgggac acacaggatg gggcgcgta acacagggga 180
 ggggggggcg gatttanenc nccntnnacc ctn 213

<210> 9950

<211> 554

<212> DNA

<213> Homo sapiens

<400> 9950

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 caacttttga ataagcagtt taatatgttc tcgcttctgg tatttttcac tataatactg 120
 ttcttgccga aaantaacag ctgctgctgt tgtttgcct tcaagtctat taacttttgg 180
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 ctgctgggtt ccgatttttt cttactgtcc tttttggcgg acttttccaa agcggctctc 300
 ctctcaagt agtcattctg aatttcatta tacttgggtan tgtgttcttt gataangtca 360

gtggttttct tgtggtgtct cttaccagg tctttcattt cttttagtg tttcttttga 420
aatttcccaa acaaaatctg ttgcttaatt cctccanggc tgtgctcccc tccgttaana 480
aacnctgaat aaaatctccg tttngggngg tgccttaca aacctgaact gggttggtttt 540
gaaaaccng nag 554

<210> 9951

<211> 593

<212> DNA

<213> Homo sapiens

<400> 9951

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gtatattaaa caaggtgtct gtagataaaa acacataaaa caaaaatatg tattgggttg 120
atgacaaaaa tgtantgatc agaggcgtgg aagctaacc tgtatttctc cangancagt 180
ggttcagtat gggctaatag tggtcacagt atcttttagag aacatactcc agcactcacc 240
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caggtaaacc caaataaggg agaaaggagg caataacagg agcggggang agtccctgaa 360
atccccctct tttccagaat acctaatgag cattccaccc ccttattaaa aaaacatccg 420
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nggaagtccg gaaatcaaaa acaccgggt aacacggtga aancctntcc ctctaaaaat 540
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<210> 9952

<211> 403

<212> DNA

<213> Homo sapiens

<400> 9952

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caaactctgc ttcccaggtt caagtgatct tccagcctca acctcccaag tagctgggac 120
 tttaggtgtg tgccaccaca cctggctgtt ttgtattttt agtacagatg aaatttcacc 180
 atgttggcca ggctgggtctc aaactcctga cctcaactga cccacctgcc ttggactccc 240
 aaagtgtgtg gattacaggc gtnagcccca agctgggctg cccttgagga actgantgtg 300
 gctctcaggt cattcccccattcacatca tgaatgaaan anttgtcaga ngcaagtnnc 360
 atgttaggta atggggcgac agcacactgg gancaangtc cca 403

<210> 9953

<211> 572

<212> DNA

<213> Homo sapiens

<400> 9953

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 acattctaaa atatcctaatt tcttttaca agtgcttgag cagtcncata cacatacagt 180
 aatagcaaaa tatatttaca ctctataaag cttaaaattt taaatctgac taaaatatat 240
 atatatttta aactacaaaa aattagtgtt tctttcagct taattgtgta aatagaccct 300
 gccttctaatt ttttttagtg attgacttcn attaaaaaaa aaattctgta cactgtgtng 360
 ttacaaaatg ctgtcagttt ttaatgctaa gancctatit tagacattac tttctttgct 420
 atttgagaac ccaaaaagtg agcagactgt nctccaaaat ntttanggtt ttaatttaat 480
 gttgttttac cccgttttaatttaaaccceca aaaatnagcn aaattcccn atgttccttg 540
 gccaggaaat aactggncctt ttaaaaactt ta 572

<210> 9954

<211> 591

<212> DNA

<213> Homo sapiens

<400> 9954

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attaaaccct ctaaccaacc taacactcgc tttcagaggc acttgatgat attttcacag  180
cttccatagt tgcaaagaac aaagaaatca tcttccaaca ggggtggaat tagataagaa  240
taatccaaaa aatattttatt tctttacaga ctacacagatt gcttgatggt taggggctct  300
tacctaggat acctaattat tcaaggtttt cctaatttag tanacttttt cattgcctac  360
aatctacaat attcancaaa gtattaaggg aaaatgaacc caagaaacct taaccacctc  420
aaatanTTTT atggatatac taaactgtcn agttcaatct ttatcttaan acttganaac  480
tggaatgccg gaaaacnaac tttgggtgga attctggaat taaaaaantt aaacctgggc  540
gaantaaggt gtggcacctt gttntttnt tcnaaaacc caacctnga c               591

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<210> 9955

<211> 585

<212> DNA

<213> Homo sapiens

<400> 9955

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gagacggact ctgctctgt caccaggct ggagtgcagt ggtgccatct cggctcactg   60
caagctctgc ctcccagggt caaganattc tcctgcctca gcctcccag tagctggaac  120
tacaggcacc cgccaccacg cccggctaatt tttttgtatt tttaatggag acgggtttca  180
ccgtgttagc caggatggtc tctatctcct gacctcgtga tctgccacc tcggccttcc  240
aaagtgtgg gattacaggc gtgagccact gcgcctggcc tcaaggtatt tctttaaaaa  300
tggaatttaa tatcaaaaag taagcttttc agaaaacaca ttcctaactt taataaagac  360
aaaagaagcc atttccaaca aaaagtaaca cttaatatc taagactccc cncaactttc  420
agattttaat ttcaaccttc ctgggnaagc tccctgcttc ttagcctttc catgtnanaa  480
tcatctgtgg atcctttccc aatacacata cattaaatta gggctngggg aagggaatt  540
ttctttanaa tcngectcct ttggtcntga tttcancaat ttaaa                585

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<210> 9956

<211> 501

<212> DNA

<213> Homo sapiens

<400> 9956

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gagaacacat tcgtatTTTT tgacccanac caaaaacttt tggtcctttt taacggtaca   60
ttcctacatt aanaaaataa ttagtgataa atatattctc tttttgtaca aattcaattc  120
cagtttttaa caccctaatt cacaaaattc atgccaatgt atgcgctgat aggctgaagc  180
caagctgtga aacttcanaa cacagttaag ggcagcaatc aagcccgttc caggctgacg  240
cgcagggcgt tcttacatca catcccgggg tgccagctca accccggcac gtcagcacct  300
gggtgaaggg agtgccgggc actgatggga tcaatacaag acacagaccc cttccgtcgg  360
gagctggcta atctctacag tgccccacac cactgatttc tatcaggctc caagggtccc  420
cattgaagaa aaaggctttg nccctctgaa tcctggggga nttttttcc nggcaaaggc  480
ccntnttttt cncaaaccnc c                                         501
    
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<210> 9957

<211> 553

<212> DNA

<213> Homo sapiens

<400> 9957

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aatatagaga actgattatg ttcacttgta acctgtcatt caaaattctt tcaggatggt   60
taatgttcaa gtgtccatat tcccagtcct actggatgcc tggcangatg caaccatctg  120
aatgagtggga agtataatgt ttgcaccagg tattatatta ggagccttga acccagaata  180
tgtctgatta agtcttttag cccaataatt tgccactgat gccaaagtctg gtaattttga  240
aggagaaagt tcaaccataa cggggtgata cagggcaccc ccgtactcaa aaaactttca  300
aagtgccttc taaacaagtt tctctttctc cntgaatata acgtcagtca caactgatgg  360
cagtacaatc gatccatcca tacactgctc taagaacatc ttgatgggta taatatgctg  420
    
```

tcttcatgct ctacctgcta ctaatttaat ttgggtcngt tactcttccc tggganaaac 480
naattentct taaatccaat tccttttnna ccaaaaanaa atgatttccc ccctgggcct 540
ccctttaacc aac 553

<210> 9958

<211> 436

<212> DNA

<213> Homo sapiens

<400> 9958

ctgtgtcatg atttataatt gtatgcatgc ttgatcttt ctcacacag gcagcactga 60
naagtgaagg aatatttggg aggatcagaa gcttggctct gattttgcca tcaacaggaa 120
cttgatgact tcaagggagt ccccaaacc tgggtttctg ttttctcaac tctaactga 180
ggggctanat gcactgtggt tagttagtct ccatgatggt ttagttcgtc tccatgatcc 240
tgtgaatttc agatgttgaa aatctttgga aaagccctga aagatgaaca ggtaggagtt 300
attgtctata ttttaccat gaggaacta aggacctggg aatctanang gctcattanc 360
tttgaacca gtactagcaa tgaattcatc tgaattctgg tccnaactc ctagcatgan 420
anaaatttga nctttc 436

<210> 9959

<211> 526

<212> DNA

<213> Homo sapiens

<400> 9959

gggcacatta taatatttaa tattctgtag ttttaatttc tgaaccttg gnttataaat 60
ttttctcaac ttacatttaa aaatgtatca atgcaccttc ttcagtagta ccacatgaaa 120
atataaacct cgttcttcca tatcttctac gcaggaanag tgaatgaata gtaccctaaa 180
tatcccgcaa agttactttg tgttcttgac ggaanattag ggaaaaacaa tccacctcca 240

tatcttgagc agtagttaac tagtcttcta cctcatcttc ccaaatatcg tcgtcaacat 300
 ccacagcata aaacagccgg ttaaaacatg gtgaacaggg tcattgaaat gtttgtaagg 360
 gtttgctcta caaaaaaac catgcaaate ccagaaata ttgcatacac cngtacetgt 420
 ctctgttac atcccgcta attctctatg ggantttccc cacatggggg gctctttgaa 480
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<210> 9960

<211> 558

<212> DNA

<213> Homo sapiens

<400> 9960

gtgctaaatt aatcatagag cctttaatcc actagtaatt tggagtgaat tttattaaga 60
 agaattaatt gtaagtacat gttactttc gtgtcaggat aaattgcac ttttaaagct 120
 aagtgatctg tgtacattgt gatagggcct ttcactttgg ttgaaatctt aggtttgaaa 180
 ctgtgcctgg tttacagtaa ctaaaattaa ctctagctgt gtggtccttt atatagttgt 240
 tatcatccca atcagatata tctcatctga tgtcaacttc tgagtccaat aatcagacta 300
 nctccanaaa gcacaggga agtggtgtgg acctctangg actgccctct gctttgtgga 360
 aaggcttggg taattttcca ttanagattc aaccaaccac cgaccaacc tggaatttaa 420
 taacaagctt tttgttgata agtttatcnn tgaaactagc tatctgttct aagggactgn 480
 atcctccttt gaaacacccc ggcttnaaaa atccnctgaa ataacnttg gggaaaactt 540
 gtttaaaaag gnnntttt 558

<210> 9961

<211> 583

<212> DNA

<213> Homo sapiens

<400> 9961

aagaaacagg tctcactctg tgggccangc tgggantgca atggganaat catagcccac 60
 tgtaaattca aattcctggg gccaagcaat cccccctcag cctctgggag tagctacatg 120
 tgcgaacatg cccgctaatt tatcttaatt ttttagaant taggtcttgc tatgttgccc 180
 aggccggtcc tgaagtcctg gcctcaagcg atcctcctgc gtcagccacc caaagtgtt 240
 ggagtagaag tctgagctac cacgcctggc cctgaaagct attttatgga agaatttaaa 300
 ctaaagatct ccaaataatta ttcataatta catacccatg ttggtatcta tgtttactta 360
 tctaccattt ttataggatt tacaatatga caataataaa taatcgtctg tttcccccaa 420
 atagagcata agaaaaagac taaaatttgt tttatttatg gtacnaaant ttgttctccc 480
 aaatatttta aataaaatat tgaatatgct cnttatttcc gaaaatctaa caccgggtna 540
 tncnaaatcc aaaatttttc ctactcnntt gnaaattgaa ttt 583

<210> 9962

<211> 477

<212> DNA

<213> Homo sapiens

<400> 9962

cacaggatga caaactatat ttcaaaactg aaaaaaagca aaatgtttat atctcactcc 60
 tgaaacaaaa attaacatca gacttaagaa aataaggcag atactagtag tactaagttt 120
 tcttgaaact gtaaaatata tataaaaatg aaaagatacc gaatgtggac agctccacat 180
 tgatcaacaa atgttaacat tctcaatctc tttcattgac tttaaaaact atgtnataga 240
 aacagaaaat gaactaatac acaaatgaag tacaatatc ataattttca gaaggtttga 300
 tttttcgagt accataaaaa aactgaaata taaatatattt ggaaatagtt ctaagaaata 360
 aatatgaaaa tattttgttt ggtgtcntaa cacanaant atcnnntttc cccaaatgtt 420
 aggatccat tattttatga attaatttgg gggnccttgt tttatccata ttgncnt 477

<210> 9963

<211> 528

<212> DNA

<213> Homo sapiens

<400> 9963

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caaggtgagc ctgatcacag cctcggtagt atttattttg aaataaaaagt tcccatccct   60
tgtaggcctc gctgtgaggc acaacgtctt cgaggggaag ttgaantggg gtcttcttat  120
tcaactgggcc ctaaaccgca ccttctggta tcttctaagg caattctggt accgcactgt  180
gtctgggttg gcctatttaa atgtctganc cagctgttcc agnatttcaa tgantttctc  240
ctcttcggcc ggtgaggaag accctgtnnc gaaaggcaag tntgtaaaaa ctggcttccg  300
atctaaaagt gananggaac gcaaaaangt gtgagctgct gcancgtggc tgggtccatg  360
tccctgtgct gctcangcct tgaacgaccc tgctggantg gcagcaccct acagctgtta  420
aaccctatcc ctgctgtcaa aagtcncca nggatcaggc ancatggatt gatatnttaa  480
ntgcatttgg gaactgggaa gctgcacca ggntngacag gaaaacac                    528

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<210> 9964

<211> 581

<212> DNA

<213> Homo sapiens

<400> 9964

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aagaaattag acttttatca atacacaaat aattttactt aaaatcaacc cagttacata   60
tttttaaaaa attgcagaac ctctccacac caatgtccac agcctagaac aggttcatgt  120
gaaacctgca gtcctacccc ggagcatcag ttaagtgatg gtccaggtac tcaactgacac  180
gtttctcttg acactgagat ggtcgcaaac aaaacaccgt tcttgcctgg atgaagcaag  240
agttcacata aaagagcttt ataaaatgtc tatgaaggag aattgataat atcagaagag  300
ctccagcact tcaattgaat ataatcctct attattcttt tcttgattta atttctgtag  360
ctcccgaaaa cttaacttcaa tcttgttgag ctccagaataa acagatatct gagattttac  420
aagcttgta agatttatca gtagcctctt tgcttccggn atcattacac aacagttaaa  480
ttcgctccag aagttgactt tcccatccat aatctggtcc agggaggggg tgtttccng  540
aaaatctnt tcntttcgca cctccnggtc ggaaatcaat c                        581

```

<210> 9965

<211> 589

<212> DNA

<213> Homo sapiens

<400> 9965

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aacttttttg taattttatt gttttggaat atagttatatt tcataaaagt gttattcatg 60
tcaaaataca atggttttgt actgttatatt taaaatacct taaaatctta tttcaatttc 120
gaatatgaca aatattaaca gctataaccc atataacaga agttctctgg atctttaata 180
attttcaana atgtnaaggg gtactgtttg aaaacttcag gtgaggaggc agaatctgca 240
agacttgctg actaactaga caaganaana aaggctggag gangaactca ngatggctct 300
tggatggtac ttgaaatang caatacagga aatgaaaaca gtttangttg aagggattgg 360
aaaaagaagg gntaaaaaaa tttggtttta tttgaagtgg tgagtcctac atgaaattta 420
tgaaaaatct ggaattccaa aaattggtct attctaaaaa tacnaaatgg catnttttgt 480
ttcntttnaa ctgggggaaa agattacctn aaacccttat tttgaacccc cctttgtttn 540
ataaaaaagt ctncacaaa atttattaat tcntccttta nggcccaat 589
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<210> 9966

<211> 571

<212> DNA

<213> Homo sapiens

<400> 9966

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atattttagt gcacaattta ttttaaaatc cacacaagaa acccagaaat gcagcattat 60
cttcagacat cacattctag ctctgtttta ataccacata tgctaaaaac cgacgccagg 120
acattctcta aatgagttac aaatcagttt ctgggaaagg aatgctccat gaaaagctta 180
tagcaagata actcaggctt tcagggtggcg tatggcacgt gaattancct tacagtaatt 240
gtgtacatag tatgtttagt cattattgaa tcaaaagttt caggaagtac cttttttaat 300
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gcatacgctg agagaaccgt caatatgcct ttgttcctgc tgagggatct gccattctgg 360
 aggtacaaat actgcagata gaatatacacc gcaggactac gtcnagttca gantgttcag 420
 gatcatttct atataaaact acnattagct gaactatggc caangtcctt gaacataaan 480
 ccttcttctt ttcatatgcatt ctttaataagt taaaagccnc taccgnnaat gccgcctatc 540
 cgttttttan tcccccttaa ttttgnattt c 571

<210> 9967

<211> 588

<212> DNA

<213> Homo sapiens

<400> 9967

gttttttatt taaaataatt ttttaatcgg ctgatagttt taaaattatt taaaaacact 60
 atgggggggg ggatgaccca ncaatataaa ctgatattta ttaatttaaa aagccaatta 120
 ggcatgtcct gttatcccag tggaaanata taaantanct atgataatga atgtgggctt 180
 tgaattttta aaaactttca antcttggct atntcactag ccaacaattc tgtttcctca 240
 actgcaaant aagaataata ataatgatcc tacaagggtg ataaaaggat caaatggaaa 300
 aaacagtnn ttgtggataa aggtacaaat aaaattatan atantctctt cnttccaaaa 360
 aggggggaaa gtatttcttt tcaaacttgc caagggggan gaatgtaat gctanctcat 420
 tcttcctant aacaaatnaa gtaatggttt caaagggtact gctcagtcca aaacccaaat 480
 tccccattag gatccccctt aancctaaat cccctantc ctttttttaa aaaaaaatta 540
 ttaaacttna acccccactt tccaactga atcttaactn taaaaaaa 588

<210> 9968

<211> 267

<212> DNA

<213> Homo sapiens

<400> 9968

ggaagggacc actgccttta ttgcctctgt gctgggggtcc cancctgggg ttcaaaagcc 60
 tctgggggca ataggtgacc ctggacccaa attattgcta cttggctagg tcaccttggg 120
 gcttcccata ctgccctgaa aatgggtggg atganggcat gcaaacaata tgcaaatgac 180
 atgcaaacca acccanangc ctctggcaca tccatgggtg ctggaaaaat caaaacctan 240
 tggcctnnga aggcnacngg gcaccca 267

<210> 9969

<211> 449

<212> DNA

<213> Homo sapiens

<400> 9969

aattatactt taagttctag ggtacatgtg cacaatgtgc aggttagtta catatgtata 60
 catgtgccat gctgggtgtg tgcacccatt taattcattt agcattaggt atatctccta 120
 atgctatccc tctcccctcc cccacccca caacagtccc canagtgtga tgttcccctt 180
 cctgtgtcca tgtgttctca ttgttaaagt gctaaacatg gtggctgact gcttctgagc 240
 tggaagtga ctgagttgaa agttattggg agacagatac actattgtat aaagtggaaa 300
 ctgaggaatt attcatgctt ccatggtnca ntattctcat gttcccttcc tccaccttcc 360
 acaagcttaa ananaaacat gccttgaaaa gggncagggt tgggtcttta tcaaaaancc 420
 nccccaccaa acnctaaggc naccatttt 449

<210> 9970

<211> 582

<212> DNA

<213> Homo sapiens

<400> 9970

ggtagtcaac ttgtaccaag tttagcagca agangatact tccttagaga ctttcagtgg 60
 acttaaactc agtttccgct ggtgctatgt aaagcatcca caatggtttt attgtactct 120

gcaatctgct tggtcacatt tttcttaatt ggctggtaat cactctcttg actcttggtt 180
gctatgaatt ctttcatcgc aaaattatit tgctcaaggt gttgccactt tctctccaaa 240
tttgtaagct gagaatgtgt ctcatittct tgcaatttg tttttagtgc ctcatactct 300
atgttttgct tctccattat tttcttaaag gcatttctgt gggttgataa tatcattctc 360
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tatatctcca gatcagttgt catttgctta attttgcttt ttaaaaaaag ctgttcctcc 480
ancntcctaa tttcnaaaaa ccccatittct gcaaatcaac tgcaaanttt naattctaaa 540
tcaatctgaa ccgtcttggt nattccgccc tccataaatt na 582

<210> 9971

<211> 596

<212> DNA

<213> Homo sapiens

<400> 9971

atttaataac attgtttaat aaaaaactac atatttaaca gaaaagttgt taaagctaca 60
aggtaaaggc acattgaaag agaattgcttt ttaaattcaa ttttcaggga attcacttta 120
catgtaaata aagcagaaaa tgcaggaaaa ttattttgaa gtttttcac acttaacaat 180
ttctgggaaa caaagttcat cctattttcc catagaggac ccctgttaaa atataagatt 240
atattcccct atactaggat tcagcattca aataaatcac tagtccaact tcaatgtcgt 300
agaacccaaa aaaaatataa ctatcctaaa aatatataat ttaaaatata atttatagtt 360
atactaaatg ggaataaaca tatggcacac attaattaca aaggatactt catgttacta 420
gaaagtgcc tgtaagaaaa ttaataaatg acctaaaact aaagcattta ggataacaaa 480
catcctttta cttgctatct tttaaaatgc tgcctaggga aatccaatgg cccttaaaaa 540
aaattgttcc aatattccac ttttttgaa acttttncn gaaataattg aaggcn 596

<210> 9972

<211> 424

<212> DNA

<213> Homo sapiens

<400> 9972

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gtatgtaaca gaacacattt cagattgtat ttaatttaaa tatttgata taagagcaaa 60
tgtctgaatg tggcctgaat caagtttaaa tattgttggc tcatactgat tatggcgcct 120
aagagagcta tatatataca catgtaaagt ccattgtttt tattgtcctg agttgtctta 180
aacctgcaaa atatacacta cccatttttt tttccattg gtttcagact tggttcaatt 240
aanattgggtt ggggattttt ctcttttctt tattaacat gttctggtat canaatgggtg 300
ttccttctcc atcagaggct gggaaacgta ttataattag ttttctccc ccataccttc 360
ccccaagaac aatgaaaaat aantnaangg tggaacnttc ctcenttaaa attnttgcnt 420
aacc 424

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<210> 9973

<211> 550

<212> DNA

<213> Homo sapiens

<400> 9973

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gaccttctca atgactaaaa cattgggagg ggggaaaaaa gaccaagtgt tacacaaaan 60
aatttttagtg aaattattgt ttttattgct tttaatccct tgacgccggg agttgggatt 120
tcccggcaca cttccattgc cggcaatgan acgcaccgtg accgccagcg ccaagggggtt 180
aacatatact tgtaaaacca tataactctt aatttgtacc cgtgtcttta ctcttattga 240
tatataaaat tatatataca tatgaacat atagctacat aaaacttagc aacaataaaa 300
ataacacaca ttaatacaat tcaaagaaaa attaaccctt tatgctggat aaatctcatt 360
tctgtttttt tattgtcttt tatgttaaac tttctacaaa aggatgtata aacgggtaag 420
tanaaaatct ctatctacaa aatgttttct cttttaagta ttacattact tgggtgttnt 480
ttaatanact gacattttta nccenttaaa atcentttac nttatacccc gcnaaatact 540
ttaaaccccc 550

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<210> 9974

<211> 201

<212> DNA

<213> Homo sapiens

<400> 9974

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cacacagcag gagcagcagg atgctccaga tgtctttatt ggggctcgag cacagcatga 60
cagttggagg catgcagaca gggcacaggg cccagcctgg gcatgcccca gacacacacg 120
aggggacagc tttagaaaag gactgaccaa caccagggag gagcagggag ggagggccca 180
gggagggggca nccnnnnctn n 201
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<210> 9975

<211> 460

<212> DNA

<213> Homo sapiens

<400> 9975

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gtaaataaac aatttttattg ttcattctca catatgtgaa agacatcact acagcatcca 60
ttactctcaa gttacaaagt tataaaacaa gatttttaaaa cttaatatct tgataagggtg 120
cttaacttct aaacaaggaa aaattaacat tgttttttaa acttactgag ttattatgca 180
tctaatagcaa gttttatcca aaagtaaata taacatgaca tatccctaata acaattaaat 240
aatctataat taataagctg agaattgggg ttcaagacca cagtttgaat ttttaaaaaa 300
tataaataag tccattagca cagtaagttt tgactacagg cctgttatca atctatgtca 360
tgaagtgaca ttactttaac ncattaggaa acanaggtta ntaacaatca atacctcncc 420
tttangtcta ttgctgatac caattganat gtnttttaaaa 460
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<210> 9976

<211> 308

<212> DNA

<213> Homo sapiens

<400> 9976

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tcagttgggt ggactgatga ggnaaaaaat aaattccttt taaaaaaca aactggagcc 120
tatttacaaa acatgcaaag ggagaatfff aagcagggtg tactgcagaa ctgctcagac 180
gtgaatacag ctgagtgaca gaatatacct ttacttctac aaatataggt cctncccca 240
gactttctgg aagaaatacn ttttcagggt gtggactata aaatggcnta cantgctaan 300
accnanac 308
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<210> 9977

<211> 600

<212> DNA

<213> Homo sapiens

<400> 9977

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gtgagacatt tttttcctta ttaactctct tcaaattact tgctttttgt ctttctgact 60
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ctacacttgt gctatcttca tttattaatt ttgtaataaa caattctgtt agttcatcca 180
tttcatcttt ttcatttttt tcaacttcct tttgtgaaac thtagctgtt gttcttgaat 240
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gtcagaacg tttcctttac ttgtgagttg caacaccgtt tgaatacaat aagaagattt 360
cgggtgttg atgtaaagc cttanataat ttatggcact tataatgtct aattatattg 420
ctttcacttg taacaactga agtacatccc tttatcatac atggaatact ggggttacca 480
aatctggctg gtacactcaa anaggggatt cattcctanc ctttaataaaa aaaacttgcc 540
tncccccntt ncaaaaaata tgggttattt nctccaatct gcaaaacctn ggttcctggt 600
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<210> 9978

<211> 598

<212> DNA

<213> Homo sapiens

<400> 9978

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gagacaaagt ttcactcttg ttacttagac tggagtgacg tgactcgatc tcggnctact   60
gcaacctctg cctccccagt tcaagtgatt ctggtctcag cctcccgagt agctgggact  120
acaggtgcat gccaccatgc ccagctaatt tttgtatfff tagtananat gggatttcac  180
catgttggcc aggatgggtc caatctcttg acctcatgat gcacccacct cggcctccca  240
aagtgtctggg gttacagggt tgagccacca cgcctggcct actatttctt tctgtatgtt  300
cttgtgggcc tgttgttttag ctcccactta taagtggaga catgtantat ttgtggggaa  360
aagananac ggattgttac tgtgtctgtg tngaaagaag tanacatagg agtctccatt  420
ttgttctgta ctaagaaaaa ttcttctgcc ttgaaatgct gttaatctat gaacttacc  480
caaccccgctg ctctctgaaa acatgtncct tgtcactcca gggtttaatt ggattaaggg  540
ctatncaaaa tttcttttgt tnacnnaatc ctgaattcnc atgcncttta aaaatctc   598

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<210> 9979

<211> 526

<212> DNA

<213> Homo sapiens

<400> 9979

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ggcaggccaa tgcaagtttc tttactgaaa ggtgggtccg tttcaaaagg acagtttggg   60
cacagaatag acaaacatta nagtttgana gttttccctt gagttttgca aaacaaaaca  120
tctagtaact tcagtattca ccaggaaaaa ttccccagtg cctctccctc cagccctttc  180
tcctgcctgc cttcaggatc accccttgct tcataggttt tcatttttca gttctccttc  240
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aacccttggg ctgaaacagg tgcaggcttc anccaantgg aaaactgctg ggggtgggtgc  360
tgcctancct ttgacgggtg ggtaaggaaa aaacgggtta aanttagggt natgggctcc  420
attctgttgg ccaagggtta acctggcttc tctcattcaa tttncncat tggcaaaaaa  480

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tgtaaccctg ccattnccttt atnaaaaatn tataaanttg gccnc 526

<210> 9980

<211> 515

<212> DNA

<213> Homo sapiens

<400> 9980

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gttcagcctg agtctaagtg gtctggtgtt ttatgatgac tctaccaa atgtttaattta 360
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atgacnccgt gttctatctg cncatttnt ncaact 515

<210> 9981

<211> 488

<212> DNA

<213> Homo sapiens

<400> 9981

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gattacaggc aggtgccacc atgcctggct aatttttggt ttagtanana tgggggtttca 180
ccatgttggc cagggtgggc tcaaactcca gtgatccacc cacctcagcc tcccaaagtg 240
ctgagattac aggcatganc caccacgcct ggccccaac tgactcttga ccaaagaatc 300

tgatttggca aaccaaactt tagtgcagtg ttcgtcctc gtccccttac ccagaacatg 360
 attcagatcc taacataaac acaaaaacag gtcnnggaac caaaacactg tggctctgtc 420
 tattatacaa aatattgana taatgttcac aantcttct gtttccanc aattgtgacn 480
 attttgaa 488

<210> 9982

<211> 547

<212> DNA

<213> Homo sapiens

<400> 9982

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 gtctagangt atcacttctt tccaaactta acttcatttc agcagcatac atggaatatt 180
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 taatcatggt gtggaatttc tccataccan cagcatggct aacgtttgtt nttttaaggt 480
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 aagaaaa 547

<210> 9983

<211> 589

<212> DNA

<213> Homo sapiens

<400> 9983

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 anaggaaaaa ttcctgactc acctaaatca cactgaagaa tatatcaata caatgggtctt 180
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 tagcacacag actgggtccc aagttacaag cacactgacg ttatctagct tcaaaggcat 420
 actgcctttc agantctaaa acagancgat gtgcatcata aganatagcc tatcagattc 480
 ctagggccca aatgttccaa aggtcnnttt cctaaaggca tgtntathtt naacnaatat 540
 aatttgggtt ctaatctgac cccatttaa tgatcactng ggaggaant 589

<210> 9984

<211> 591

<212> DNA

<213> Homo sapiens

<400> 9984

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 taaaagcatc cctaattgtg gaaggatggt aatttattta caaaaactat acaaaattag 180
 attaattata acaacaactt atcaaagggt cctgaaatta attttgcttt tgaaaaagta 240
 tcaaaagtct tcaaatccan aatgatagca ttttattatt tctgattcat ggaattatag 300
 cacatcanat cttaagcaa ctacatcana taaaatccta nataataaaa tattcttcat 360
 ttcctgacag cttggaatgt aaatgaaaac ttgttcatt tttattaaan aaaaaaccta 420
 naataatgca tccnatggta tcaaatcct gttaaaatgg cgtgtctgct ataattaaac 480
 atgggcnatt aattctacat aattaaaaat ggcctaaatt aatccccct taanaaaaaa 540
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<210> 9985

<211> 529

<212> DNA

<213> Homo sapiens

<400> 9985

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gagcattcac caacaatttc tttatttaaat aagtgtatct tatatagaca atctttttaa 60
aaataaaaatg ccttatttgt gttgcataca tttattccga gggagcctcc ctacaagtca 120
agagtattct cttagccaga aatacttcta ttgctagaaa cattttttaga acagaacaga 180
tttttcctgt tatcatggct gcatcaaatg ttaccctgca ttttaactaa aatggccaaa 240
cattttcaaa gtcatcatgc actacaagaa tctaaggcag tgtgtctaaa atgccaaacc 300
cagtacattt agttaaatat ctgggtcaatt caaaaagcaa aataaattga ttcaattggt 360
taatcagtta aaccatctgg ccaacataga gtgaatcctc aaaagggcaa catgtcctaa 420
taaaaacgtg tgacangatn gtccaancac accccanggc cacacagaaa aaangccatt 480
ttatcttcct gaagangtct ggttanaatc cgttttggca aaaattttc 529

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<210> 9986

<211> 479

<212> DNA

<213> Homo sapiens

<400> 9986

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ctgagatgga gtgccactct tgttgcccag gctggagtgc aatggcgcga tctcagctca 60
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gattacaggc atgcaccact acgcatggct aattttgtat ttttagtaga nacaggattt 180
caccatgttg gtcaggctgg tctcgaactc ccaacctcat gtaattcacc cgtctcagcc 240
tcccaaagtg ctgggattac aggtgtgagc caccgcaccc agccagaatt atcttatgtc 300
tggtanaaat tgaggacttg ttgaaggctt tgccatattc ttcacactca tagggttcct 360
cttcagtatg aatgttctta tgtttantaa naattcanga cggttnnaag ctttgccaca 420
atcttcncat ttgtagggtc tctccnctat gaattacttt gtccataaa ggttgaaga 479

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<210> 9987

<211> 601

<212> DNA

<213> Homo sapiens

<400> 9987

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nagatcacca tcaggtgccg ctctcttctt gtggctttcc atcttcagc cagcctggtc 180
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aaaaataggc angcaaaaac accgaagggt gtctcaaaaa angttcccat caggttcnca 300
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g 601

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<210> 9988

<211> 446

<212> DNA

<213> Homo sapiens

<400> 9988

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tttttacaaa aatatcctgg caggatctga aactgtttct ccaaattgtt aaaatatatc 180
tgtcacacaa aatgaccccc aaagagaatc ctgggaagaa aacaatttct cctcctccat 240
catccaatta agtattttatt aaacagtcnc tatacttaaa atacctttcc agggtaccac 300

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ctactaagtt aacagactac tggttcaaac accgcaaaga aaagcctgaa actagataga 360
aacaagaaaa acctccnttt tttttngtgn accttttngt ttgtttttac ntgagaaaaa 420
gaaaacanaa ctgaggnaaa aaaaat 446

<210> 9989

<211> 559

<212> DNA

<213> Homo sapiens

<400> 9989

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atgctgagct aaggaggctt cacatgaaag cctacaaata tgaggaggaa aaacctagcc 120
acggcacatt tccaacaatt tcttaataat tcctcttttc ttaaccacag aaataaatca 180
gagcctttta aagttacctt acagatacca gcttctcaga aattattttg cagttatgtg 240
agagtatgtg ccttcacaat gtcagcacca acatcttttag tattttaaga ggaaaagtca 300
agtccactga aggaatttta cagatttttc cagaaacact taagacatct ataattaggt 360
tttaaaagga gtgacagaat gtcttgaatc acaaattaat ctgaattcag gacaataata 420
actttaactc ttaccactt ttataagcca ttattcccat taatggntga caatctatat 480
ttccccattt ccatgcccaa atgaactgnn ctccnttcct ttgaagaagn aaaccnnaat 540
gactccggaa agggtttgn 559

<210> 9990

<211> 533

<212> DNA

<213> Homo sapiens

<400> 9990

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atccacctgc ctcggctctcc caaagtgtg ggattacagg cgtgaaccac cgcacctggc 120

caaatccttg ttttaacca tatactccat aaaataaccc tgccaagggtg ggactgtcct 180
 ggccccctgt ctctaggtga gganactgag gcaganaggc taaggacacgt gctgcaggctc 240
 acgcagggtgc tgagcggcag tgcctcggta ttagctccat gacccaagct gttgacntct 300
 gcccggtgtg aantcaccac ttccccaggc ctcccctccg ccagtcggan ctgttctccg 360
 ctcacctcag aatggacggc aaacgtccan ctgttctggg tcttcctctc ctgggccttg 420
 ttacatcaag ggctggttgc angtnacacc cactccatcc anggtttctn caccacnang 480
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<210> 9991

<211> 495

<212> DNA

<213> Homo sapiens

<400> 9991

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 agtgcaaggc ccaggccatg agctggggan gaagcctgac agcttggacc cnancacaga 180
 nggacgtgca ggggtggctca tactcatact ggaaggcaga accatcacga tgcctctttg 240
 ggggttccca gacagaacaa ggctcctggg ctcccctggt atctccggtc ctgggaaaaa 300
 gcggccgatt cttgcanggc aaccctacc aactcccttg aaactccan ctaagtttct 360
 tggggccttg tccccaaaaa acctgttttt gnattggggg acntggcttc cgggggttaa 420
 aaactgggaa ttccccctcc tggaattggg aacttggggg nttcggttgg ctttttngn 480
 acctnggggt tcngg 495

<210> 9992

<211> 553

<212> DNA

<213> Homo sapiens

<400> 9992

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ccactgacac ctcttgtcaa ggtctccagt gaccactatg ttactgaatg ccaaggccaa 180
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cctaccttcc tggaaaagtc tttcnaagtt tctgtgtgtg ctccctcacc tctccaact 360
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gcttggtatc tcacccantc tcataacttn taaacaccat ctttatntn tacaactctc 480
aaaaaaaaacc taaacttctt ttctgaaatc ccgaatttta ttctccnaa tttaaatggn 540
ctaattggccn cnc 553
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<210> 9993

<211> 399

<212> DNA

<213> Homo sapiens

<400> 9993

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aaaatgaaaa ttaagttata taatcatgag tggcagagct gggaaatgaa ctcaagtctg 180
tgactctgaa gacatgaaaa agttacacat ttcagatgaa tgcataaact atctttatgg 240
gtatgacatg aaaagtaact gtanaatgtt accttaatta catttccnaa tgcattgatgt 300
ggacagacat tanaaaagtt tggactcctt tggaanaaca aatccnncag ttaaaaaagt 360
cctttacttg cnatccccac cctngctan cccggaacc 399
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<210> 9994

<211> 542

<212> DNA

<213> Homo sapiens

<400> 9994

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tattcttaag antagcgatc aggagtttaa caacaaatgt naagtggttt tctctaaaga 180
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agaaaggcan tgaaaccagn tntnaacaca tgccccgaaa acaattttan gatttctaca 480
gttctctcg tttccgcctt cccaaattct acctactgg ctattttct naaatgctac 540
cn 542
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<210> 9995

<211> 529

<212> DNA

<213> Homo sapiens

<400> 9995

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ttgtacgtan aaaaaacaaa ctttttttta ttgacattca cactcaacac tgaacactcc 180
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ctcagtccca taanatctcc cccaacttca gacaccagtc acaagcagta ggtncaaaag 360
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gattcacat ttgctnnaat tactcccaa atccggaaan ggnttattta ctatccccct 480
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<210> 9996

<211> 536

<212> DNA

<213> Homo sapiens

<400> 9996

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ccatttcttc taaattttct agtttatttg catcganttg tttatagtat tctctgatgg  180
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ctctatcacc atcaattctn ccctgatctt aattattant tacttgtttt aattgctnctn  420
ctgatcttag ttatccactt aattagtggg ttaatgcngg attttttccc ttgttttttc  480
nataantttt aagaattctg ttttaacccc aaattaaaaa aatttttttt aattta      536
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<210> 9997

<211> 519

<212> DNA

<213> Homo sapiens

<400> 9997

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aattcatcct gagaaaataa tactctttgc actttaccct tcatactcag catatcatct  180
gtcctatata gtcttcaatt atataataga aaatgttttc taccagttct ctccaaaagc  240
tgaaattact tttttcccn ccctcagtta gtttttcttc ttcaactcca aacaaactgg  300
tgtctataca taaatcctag atccaagatt ccaattcnag aaagaacatc caggacccca  360
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atttatatat attctagcta ccactaattt ctgtngtgct acctgtngca catgatatga 420
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<210> 9998

<211> 419

<212> DNA

<213> Homo sapiens

<400> 9998

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 gccaatatat ttttacctac atcattttac ccactgtaga aaatgcatca gaaagggtc 180
 cnaacattat gatattgtca atcttactct catggantan taacctagg aanantaaa 240
 cttccngctg acttaagtat ttgtgtctgt acctaggtc actaatgggt tatgctttca 300
 tgantactag ttttaatat tatctatgca acttgtgttc tgtctgaaan aaaaatacac 360
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<210> 9999

<211> 545

<212> DNA

<213> Homo sapiens

<400> 9999

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caacaacatt ttttttttta atgcatgtgc atcagtaact tttatgtata cagttttcaa 360
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 catgcataca tgtcaacatc agttcaattt cctgtccang gtacacaatn aaccctgtnt 480
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 aaaaaa 545

<210> 10000

<211> 543

<212> DNA

<213> Homo sapiens

<400> 10000

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 taggttaatt ccatgtcttt gcaattgtga atagtgttgc aatgaacatt cacatgcatg 180
 tgtctttatg gtanaaacac cgtaaggta atttatattc ctctgggtat atatccagta 240
 atagaattgt tgantcaact ggtagttctg cttttagctc tttgaggaat caccatactg 300
 cttttcacia tagttggaca aatgtctact cctactaaca gtgtataagt gttccctttt 360
 ctccacaacc tcaccancat ctgttggttt ttgacttttt aataatggnc attcanactg 420
 gtatgaaatg gtatctcatt gtggttttga attgcatttc tcttatgaaa aatganattg 480
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 cnn 543

<210> 10001

<211> 396

<212> DNA

<213> Homo sapiens

<400> 10001

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 taatggtgtg atatgatagt cttcaanatg atgccctcaa tttctttcct ccctgcatgc 180
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 gctaggtcct aagaancctt gtagtatttg ccngtgtgtc ttggganaaa ctaccacctt 360
 gtgancactc cangtnacat tgaaaagtcc ganaag 396

<210> 10002

<211> 536

<212> DNA

<213> Homo sapiens

<400> 10002

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 aggcacctac caccatgccc ggctaatttt tgtatttttt agtaaaaaca gggttttgtc 180
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 ancacattct ccattgaact cttcanaaaa atgtinctgga ctctgcaaac caatgactga 360
 aatgccatgc tgctcctctt ttaattttga aagatcttct tcatcattat ctccttcccc 420
 aagttttnan tgttggttaat ggaaattggc tttgttggaa ttgccccccc ccgaagccnc 480
 cncccccaaa aataagttcc gcccaaaaan ctttcaaaaa anttttttcc cncant 536

<210> 10003

<211> 522

<212> DNA

<213> Homo sapiens

<400> 10003

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aattgttcac agtggtaaat tataggtggt tttctcacat tttatgtcag tttcttgtat 180
atcaaaaaat acattcatac tatgagacac aggaatcttt acatccaaaa taatttgata 240
cagatgcctt aacattgctg aatgagacaa ctttggaag attcttgttt tgtgattcct 300
ttttaccctc taagcacagt gctttgttaa cactgtgtgt gtagtaaag tgtgtgctgc 360
ttaaggtaaa gaattctagt aaactaaatg cccaaggatga ctgcgtgatt ccatgccaga 420
caggaaaaag cagtcatgct ttttgnccct anctgaacgt ttgtttcccc ncaaactatg 480
ttttcntcn cagaaatatg aaatatgcta natccagttc na 522

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<210> 10004

<211> 510

<212> DNA

<213> Homo sapiens

<400> 10004

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gagatggagt ctagctctgt cgcccaggct ggantgcagt ggcgccatct tggctcactg 60
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tacaggcgcc cgccaccacg cccagctaatt tttttgtatt tttagtaaan acggggtttc 180
actgtgttag ccaggatggt ctgatctcc tgacctgtg atcctcccgc cttggcctcc 240
caaagtactg ggaatacagg catganccac cgcgcccggc caagtatata catattttta 300
ttcataatgt ggacagggtg gtcnacagag aaaacagact tatacatgaa agatgaatta 360
atgaatgaga ttaaaattgt tttataattt ttacatttaa atccttgaaa attaaaaagt 420
nagaaatatn atagcttaaa tatcntatcn ttaaaaatta acttgcctta tttaaattaa 480
atganaaata tttccgtatt ttttgittna 510

```

<210> 10005

<211> 550

<212> DNA

<213> Homo sapiens

<400> 10005

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acaaagtctt aatacgaact gttaattgt tataacaaga ttgagangc aggggtangt   60
aagtaagtca ccaactggcg ataagtcacc aactgttaat atgtgtctgc aagtttcttg  120
tttttcacaa tcactagatt tacatacaat tataggttaa ggttctccgt gtacacatac  180
agtgaagac attttccaaa taccttttga tgtagaatgg aacctgagac aaaaaaatca  240
cttaagaaat caaatctcat ataatggaaa tactttaacc acagcattca cacatttgac  300
tgtggattcc aaatgcttat ctaaacagag gcaacgcaat taaactgcct tcactcaaaa  360
tggtgtcaga aggcaactac cctatttact anccactgat aagttatgac aacactatit  420
cataacctgt cctatatattc ttttaacccc ccagccatta ggattangat tccccacccc  480
taagggnnta tccccaatgc cttantgccc caacnnttaa aaatccaaat tgcatgccnc  540
ttgaaaaact                                     550

```

<210> 10006

<211> 231

<212> DNA

<213> Homo sapiens

<400> 10006

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agagttgaaa tatattcttt attttcagga tggaatatagg atagggaagg aggaaagata   60
cctttgttag ttgccactgc agtaccatcg aaagaacatc ctggggaaac aaagaggtat  120
gtgtgctaca ggaggggttg gtgactagag acttaggtcc cggaggcctg gacaccaggg  180
tcaaaaaggt gtacagggcc cagactcctg gttctgaggg agganntnnn n          231

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<210> 10007

<211> 487

<212> DNA

<213> Homo sapiens

<400> 10007

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gtttgtatat ttacttgttt attgcccattg cctcccccca gcaagaatgt aacctccaag 60
aggacaagtg ttgtgtctcg cttactcaca tctgtggcct cagtgccttg cattgccacc 120
cccacgcacc ccaccgcccc cagagtgccg caaanagagt gcaaaataaa tatttgtaa 180
atgaatgatg aagggaatgg tggangaggc tgtctgggcc ctttatggaa ttacttcagc 240
tcagttatgt ctatttcttt tttttaatcc tcctctctct gcccgtcagc ttccattcat 300
tccccacctc ccactctccag ggaaggggtg aaaggatgga gacagactga cgggttgcct 360
ggctgangct tgttttaggg tgtggagcaa cccccanccc aactgaactg tctgggcttc 420
cggaaggaa gaaaaaccnn tccgtcccaa aaccncnaaa attanttggt gggttcnaaa 480
aagcct 487
```

<210> 10008

<211> 543

<212> DNA

<213> Homo sapiens

<400> 10008

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aattttcttt acaatatatta ttgaaaatt ccaacagtag agattgtata taaagactct 60
aattgagatt cttgtttcat tgacaaattg ttaaaattct taactgccag tgggtgtagc 120
tcacacttgt aattccagca ctttgggacg ctgaggctgg cggattgctt gaatcccgaa 180
gttcaaaacc agactggaca acatggtaaa accccatctc tcatgtaaac ccaattccaa 240
tttcatcacc atttcagaaa gatgacgatt ttctaatttg agtgactcca gctgatccaa 300
aatctcctta tgctctactg ctttgtcttc tgccttttgc atctctgctc tgaagtcctt 360
tccgtgtctg angaaagaac ctttggtgga agcaatagtg atatctcgt gatgttactc 420
ctgagttaga tgggaaattc catcttcatt ctttctantg canaactgtt actttgttcn 480
cccgttaaatt ctgttcttcc acttcttaac cctgccttgt ntccctggt tinctncccc 540
ccc 543
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<210> 10009

<211> 538

<212> DNA

<213> Homo sapiens

<400> 10009

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gcgttttcat actctttatt gccaacggtt taaaatggc aacataaaaa aaaagacatt 60
ttgataataa atactgctct ttgggctgta ataaataaaa agtttattaa caaggaatgc 120
acttttccag ccacaagtat cttcaaaaat taatgaaaaa aaattatata tggccatagt 180
tcacagttac gcagccaaaa gctgctccaa ttacagcctt taaacaacat gggancttcc 240
tcccttctcc ctccccctca ggaagtatat tcacagttcc aaagtcctct ggctgaaatg 300
ctctcaccag aaaaaaattt agaaatcant gnccttttct gcaaaattgt ctgaaaaaac 360
cttttaaaac aggttttctca aggaaaaact gcattctggg ccctcttgga ttgtccaaan 420
tcaaaaatgt ntgccttaac ctgttctggg tccaccantc caacaggccc angggaaatg 480
tttctgtacc acacattttt ctcttctcca aatactctna ttatccttg ggtcccgt 538
```

<210> 10010

<211> 483

<212> DNA

<213> Homo sapiens

<400> 10010

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gtttctctaa aatttagaat cttaactaa atcctttatt tcaaaaacaa acataaaata 60
atttcccagg canaaaaaaaa gnttganang gaaacgttct tgtagcagt cccttcctgc 120
ataaatgggg ttggagaaaa aagaaaaaag gaatggccaa aggtatggaa agctttcaca 180
atgcatgccg agtgtgaant gacccccag canatggggg ttatcatctt tacttagtca 240
cacaacatca angactgggt agttccaggg gaanggctcc atttcattac ctgggtcagt 300
tctcttcccc cgcatgctcc acaatgcagt anaacaaaca acacattcat ttacaatana 360
```

atgtttaaat aacacctgac caataactgc ccttacttct ttgtgctgac cggaaaagaa 420
 aaaacnnaaa gccattaaac ccnaccctt tggccanccc acccgtnnct attctcctgg 480
 ggn 483

<210> 10011

<211> 569

<212> DNA

<213> Homo sapiens

<400> 10011

atagagagcc gaaatatttt attttgatta aatacataat agttatggac ttggtattgc 60
 aaataacatg tcttggaat gtttagatgt ngaggagaa ataaacaaag tcacaaggac 120
 gaggtttta cataccactc taagaaataa gtacacatag ccaaaaacaa catactatta 180
 cagtattata cagtattctg acacagctag gtttcagaaa tcattatact tgacaaaaag 240
 gataatttac attcttttta aaatcccatg taacaattac aaaaatctct ttagtaacaa 300
 agaaaatctc tagaaattct caaaagtagt cttttaatgc atggcatttt ctgaacacaa 360
 taaaacacta gttgatagaa aaaagacaga aaaaggaatn taacaagcct cctaatttga 420
 aataagcact tttctacatt actccgattn aaganaaaac cccaacntac caaattttta 480
 gaanaatatt tcttntttta ctttccaaa aacttntttt ccaattacca ccattatatt 540
 tggtaggatac ttaatttctt taccnccn 569

<210> 10012

<211> 565

<212> DNA

<213> Homo sapiens

<400> 10012

atgatagcac aaagtagttt ttaataaaaat ctgcttttta cttatattta aataaattgc 60
 ccagttactg aatcagaagc atttcttaca aagcaacaa aataagcatc ctttctatgt 120

taataacatg ttaatagtat gttggcaagt tgatttanaa caacttgcca acaatacaaa 180
cagaaaaagg agtgggtcaa agaaatctag tttggcttta ttttcaatag atcatactgt 240
ctgttgaaaa aggaataaat aattatggag cctatctaata aatataactcn atagtttgaa 300
attattgagt gcttccata taatangctc caggctaagt atttcatttg cattctataa 360
ttatgtttat attaacatga aggaaacaga anttaagtac taagttctta gcatgcagat 420
aacttatatc tatttatgac aaactttgtc cctacacatg tggctganta atttcatatc 480
tctgggtcnt aagaatcttt gaacataatg gacttaattc cntaaccttt aactggcncc 540
gntatatctg ttcaattcna aaatg 565

<210> 10013

<211> 589

<212> DNA

<213> Homo sapiens

<400> 10013

gaaaaacata natttttttt ttccctccaga ntagtagcta attttgtttt ttttttgaca 60
gtctcactct gttgcccana caggantgca gtgggtgcaat ctgggccac tgcaacctcc 120
acctcctggg ttcaggtgat tctcctccat cagcctccca agtatctggg attacaggtg 180
cccgccatca ctctggcta atttttctat tttagtaaaa atgggttttt gtcatgttgg 240
ccacgtggt ttcaaacct tgacctcang tgattctctg gcctcagcct cccaaagtcc 300
aggggattac aggtgtgagc caccacacct ggcttctttt aactctgcaa aggggccnng 360
tctggcatac agtttgaaat ttgctgccac aatcccatth tgcnaccctc aaattcctng 420
tggaaaaaag gggggtnttc catnggccca ctaaccattt gggcnaatta aactcctttg 480
ctccccaac tgtttgccaan aaaaccttaa aaggaaggcc cncctattnt ggaaacaaat 540
tntttttccc ctttttanta aaaaanataa ccctttttta aaaatcttn 589

<210> 10014

<211> 541

<212> DNA

<213> Homo sapiens

<400> 10014

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ctgtgtttga ttggttttat tttatactca gctttatfff atatcacaaa actgtaattc 60
aggtataagg ttatttcaca ctttaagggc attctgtctc tttctccaga cctgaaanag 120
atgtttcaag gatcattcac ctggctaate cacaatatat caaaatgctg acagacctac 180
aaaatcatta tgccaaacaa actcctccaa gtcgtacatt gcacagtctc caactgttaa 240
acaaattagc caatttatct ctgaaccatt gttttgtgct ttccttagct ttcatatata 300
cactctggca ctttgtcatt gctgggagaa tgctgattag tttgaaatgg aanaaaccaa 360
cgccattctt gcttganatg ggggcagttt tctctcaatg ttgcaaaata tgcccaaatc 420
attaagana cagaaatctc tcttggtaat ggtggattat nnatganaat gaaaaaaaaac 480
ccnacttnt ggatgtttta ataatctatt tganacctaa aaaaatgggtg ccaanccaca 540
t 541

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<210> 10015

<211> 559

<212> DNA

<213> Homo sapiens

<400> 10015

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gcattttttt tattgccacc agtgtagtcc caacctccat cctctctcac ctggatcaca 60
gtaagcctct gccctgcc aaccattctc cacaaagcag agtgatctct aggaaagcaa 120
ctcaggttgt gtccactct taggtaaaac cctccaacag tttctcatgc ctcagaatga 180
aatctaactc cttatcctg gactctaaca acccctcga tttagccctt acctgcccta 240
tctcttgac tctttccttg ctcactcaat ttcagccact ggtgtccttc catgctttca 300
ttcattcatc ctcaggcctt tgagcatgtt attccttctg ctttacacag cctctctctg 360
ntctttgcct ggttatctcc tacttgtctg gttctctgtg tgtcactttt cccacacagg 420
tcttctctga cttcctaata ctaaattagg atcataagtc tcagtttctt catttctgaa 480
ataaggtatt ctgcggatta aatgagaacn ttcatgtnaa ggttggtggc caagtactng 540

```

cccacagtgn ggaccttan

559

<210> 10016

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10016

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agagtaaaaa aggagtttat atatttataa atgccaaata aataccagag gccacccaac   60
gccccctccc agacagggct gtctcccca gccctaggct tctagggtgt gagacatctt  120
ggccccaagc tatagcccaa gagcagctgt cagtctgtgc taccaggga ctgagtgagg  180
atgatctgtc cagccaagtt tcaactcccc tgagtgaggg gccccatag ccacaggcct  240
gggtccctgt ataggaccct aagggtgaaa gactcagggg gagaaggtgg ccatctcgag  300
tgagaccgc tgccacagct ccttggtctg tttgctgcgc ttgaggttct gtaggatgtc  360
gttgaactgc atcatgcca tgggcgtcag gcagaaggcg ctgcgggcac tccggatcgc  420
attcaciaag tcgtcgtagt ccgcangagt cangtgaatc aagctgtggt ggatgtactg  480
catgtatgcc tgctggcaac gcttgaccan ttggtggaag gnccgggcac ncaggtgggt  540
gtgggcctna accggactaa c                                           561

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<210> 10017

<211> 524

<212> DNA

<213> Homo sapiens

<400> 10017

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ggcaggtttc cttttattgg ttctagacag tttgtggaag gaagagatga ggccatntan   60
aggccggcag gctcgcccag tgcccaaac actgccaccc tgaagtagtg ttggaagctg  120
ctccagggat gttgcagccc taagcacagt gacaggtggg ggcaggagca gcaggggtcc  180
ccgaggtggt ganaggctgg tgagggcaca gagaaggac ctcctggggc tgaggcccct  240

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ggtggcccta tgtgttggag cacgctggcg cttgtctgtc cggcctccag tcacgccaag 300
gcctcctgcc ctgaccacca gcaatgctgg cctcaatgtg gctgaagctg gacgtgtgac 360
tttgaccccg tgaggggggc ctgggaaggg ctcanttgc gccgttgctt gtcgtcactg 420
tccaggtatg caccagttg gctcanggan ggacccccca ngcgttangg gtttanggtc 480
ggncctccttc ctggtctggg gggcttctgg ggtngggggc ccct 524

<210> 10018

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10018

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ttgcaagttt ccatgtaacg tatcttaatc tacattccca aagtaattgt gtctcaggta 120
acctttgccc tgcccaaaag atgaacaaaa ataaccagaa aggtaaaaat ctgtctttgg 180
agttggggga atcactggcc acttgcaaac tgccacttca ctgccaactt ttatccaaga 240
aaaccggttt ctaaaaacct gcaaaaggga catttaagag gaagctgttc cctgaacgaa 300
gactgagcag gacaagccaa aagcgggtgcc aggggacaat gccagatggg gaaagtagga 360
gccgggttgt gagacggaaa cacacacgcc aagaacagcc agggagcaaa gcgaggagtt 420
ctggcttctc gtaactcatg aaggatgaat gctcatcggg taaatttaga cgataaagct 480
gatgatgacg gccccggggg ccgnttttgg aaccncctta nttccagtnc ncnagaaaag 540
aaaatnttgg agg 553

<210> 10019

<211> 559

<212> DNA

<213> Homo sapiens

<400> 10019

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 caacctccgc ctctgggtt caagagattc tctgactca gtctcccaa tagctgggat 120
 tacaggcacc caccaccatg cccagccaac tttcatatt ttagtagag atggggtttc 180
 accgtgttg ccaggctggt ctggaactcc tgacctcaac tgatctgccc gcctcagcct 240
 cccaaagtgc tgggattaca ggcatgagcc accgcaccca gccttcaagt attttttctc 300
 ccctccccct acaatcgccc cctcttcagg gactctactt acatgtatat tgggctgttg 360
 gaagctatct tgcagctcac tgactgatgt tcttttaaaa agaattcttt tttttctct 420
 gngtttact caggatagtt tctattgaga cttctctgag ttcactatta ctttataaca 480
 tttaatctac ccttgatctc atcctgggna tccgcatntt aaaacactgg gggtttcatc 540
 actgggaagt ttgaatttg 559

<210> 10020

<211> 562

<212> DNA

<213> Homo sapiens

<400> 10020

aaacaagtga acagttttat taagaattaa atgagggtat ggaatgtgat acagtacaag 60
 taagacactg aagatgggta taatagtact acttgacaaa aaagttaaat ttcacttcaa 120
 aaaaaaaaaat cacaagacaa aagaaaaagc aattccatca ttataaagta agctatttca 180
 tgcaacgtac taatactccc cctcccccca aaacccaac ttccaacaa acaaaaagct 240
 atctgaaaat gctgccatgc taacatatga accacggtat attcattcat ggaaaaacac 300
 actcattaag caatggatta gataaaataa cacagtttgc agtattgtaa actcatagac 360
 cacaatgatt tcacatgaaa agcaattcca gattcactca tagggtgagt aatatgggct 420
 acatagttga gagataatgt aaatataaac cccattaatt ctctcattat cttctaatta 480
 tnaaacctgg aagcttagat aatctggaaa attcatataa aatnngnata cttcacttgg 540
 gntccaagaa atgactttcg gt 562

<210> 10021

<211> 514

<212> DNA

<213> Homo sapiens

<400> 10021

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ganacggaat tgnngctgttg ttactccggc tggagtgcag nggcgtgac ttggctcacc 60
acaacctccg cctcccgggt tcaagcgatt ctctgcctc agcctcccga gtagctggga 120
ttacaggcgt ccaccaccac gcctggctaa ttttgtatit ttaatanana tggggtttca 180
ccatgttggt caggatggtc tcgatctcct gacctcgtga tctacctgcc tcagcctccc 240
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cagcttaaac aaactaagat gattattccc acagaggaat cgtttttatc ctttaaggcgg 360
ggttaggagg aattcacaag agagacctgc tgatggacag acagtacatt gcgtgtcgac 420
aggagtccac accaatgcca cctgcaaate aanngcctga cattcccatg ggggcncaan 480
aaaaaggntn aatagatccg tttcctttnt atgc 514

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<210> 10022

<211> 556

<212> DNA

<213> Homo sapiens

<400> 10022

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agtagagacg gggtttcacc atgttagcca ggatggctc gatctcctga cctcatgac 60
tgcctacctc cgcctcccaa agtgctggga ttacaggcgt gagccaccgt gccagccag 120
caaaacaatt ttctacacaa atgtccttat gaaatgccat gaaccccaag tacacttggg 180
cagaatgaac ctattacttc attttcccca cagccaatca cccttcccca tgccttagac 240
catcccactt ccctcagcca taaatataccc taaggcttat cttgaggagg tggatttaat 300
ataagttgcc aggaccagca gacctgaaa ctccccaccc ctgcccttcc tatattctgc 360
ttaaaatttg gtggatgaac ctcatctcc cttaattgc agaacagaaa tgtgtgacac 420
tcctgagtg tcaatgaatg cctgatccct gcctaactca ggaaattctt ggcatctttn 480

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caagggtgctc ccctaaaaat ggngctccgg ggaatgatct tacagaactt aaggctttac 540
catttatggg atcgna 556

<210> 10023

<211> 555

<212> DNA

<213> Homo sapiens

<400> 10023

gtagcctcgc tctgtcacca ggctggagtg ctgtggcacg atctcagctc actgcaacct 60
ccgcctcctg ggttcaagca attctcctgc ctcagcctcc caagtagctg ggactacagg 120
cacgtaccac catgcccagg taatttttgt attttttagta cagacgggtt tcaccacgtt 180
ggccaggatg gtcttgatct cttgacctg tgatctgccg gtctcggcct cccaaagtgc 240
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cagggaact atgatgacag acagatactg cagagtaaat tattatttaa taaactttgc 420
tgggataatg ggtgtccata aggaaagaac tgaaaacgga cccactgggtt actcaatacc 480
caaactcaat tagaaaangg gattaanaag nttcnaaaga acacnttttt tttttttttt 540
ttccttgana naggg 555

<210> 10024

<211> 558

<212> DNA

<213> Homo sapiens

<400> 10024

ctttctttct tctttttttt ttttttttta nacggagtct cattctgttg ctccggctgg 60
agtgcagtgg tgtgatcttg gctcactgca acctccgccc cccgggttca agcgattctc 120
ctacttcagc ctccccagct gagattacaa gtgcacacca ccacacctg ctaatttttg 180

tat t t t t t a g t a g a g a t g g a g t t t t g c c a t g t t g g c c a g g c t g g t c t g g a a c t c c t a a c c t 240
 c a a g t g a t c t g c c c g c c t c c g c c t c c c a a a g t g c t g g g a t t a c a g g c a t g a g c c a c t g t g 300
 c c t g g c c c c c a a t a t a t c t t t c t t a t g c t c t a t t g a t g t c a g a g g t t c t a a g a t a t c a c 360
 c a a a t c a c c t a t t t g a a t a t t t a a g c t c t a a c t t g a t c a t c c t c t g t c c c t t t a g t t a a g 420
 a g t t g g g g c t g a a g g c a g c c t g n c t t t t c t t t c c c a c t g g g g a t a t a g g n c a t t t t c a a 480
 c c t t t t c c t g n t t c a a t a c t t g g c t a c t g g g g n g a c a t t c t t t t a a a a t t t c a t g g c a t c 540
 t n t t t n a a a a a g n c c c t a 558

<210> 10025

<211> 559

<212> DNA

<213> Homo sapiens

<400> 10025

a a t a c a g a c g a g g t c t c c c t c t g t t g c c c a g g c t g g t c t c c a a c t c c t g c c t c c a t c c t c 60
 t g g c c t c a g c c t c c c a a a g a g t t g g g a t t a c a c a a a c a a a a c a a a g c a a a a c a a a a c c a 120
 g g c c a c a c a g t g t t g g g t t a c a g g c t t g a g c c a c t g c g c c t g g c c a t g a a t c c t t t a t c a 180
 c a c c c c a g g g g c c t c a g g t a c c a a t c a c a g g g c c c a t g t g c t c c a t c t t g g g a a g t a a c 240
 a t t c a t c c a t a g c c a g t a a a a a g c a g g g g t t t g g t g c g g t g c c t c a g g c c a t c a c a g g g 300
 g a t g c t g a g g g g g g c c c a g c g c t c t g c c c a c a c t g c c t g c a t t g a a c c c c a c t c t c a g 360
 a a g c t a c g a t g t g a g a g a g g t g t g t t t a g a a t t g a g g a a a g a a g c c a c c c t t g t c a a a g a 420
 t c c t c c a c a g g c c a a g a g a a a g t g a a a a g a c c a t t t t t a c g c c c g c t t t g c t g a c t t t 480
 t t t g a t c t t t t a t a a a a c a a g c c a c a c c t t t c c c t a a g n a g g g a a g t n c t a a g g g a a t t t 540
 c a a a c a a g n t t g g t n g g g c 559

<210> 10026

<211> 550

<212> DNA

<213> Homo sapiens

<400> 10026

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ccgaagagtg gtgaggaggg caggacaatt tctagaggca ggggaatctg aaagtttcat 60
gccaggggaa tggagctcag tttatcttcg aagcccttct ccccatccca ggggggcccc 120
ttaccacgc ctgcattatt gaacatgccg ggaagcacca gcatgatgtg gttgggccag 180
tacttgcggt acagaggcat ctcatctct ttgaccacca ggaggtgaag gtggctgatg 240
ccctccatgg cgtggaaaag gtttaggagt ccgtgctcat gtcgaccact ggaaggagtg 300
aaaatagggc tcttgactgc attcaaattc ttgtctgaaa ccaggggcag ccgcatgctc 360
tccaggtgct tgccctgctt gctgaagaca aaatgactct ctttggattt gggaatgatg 420
aaatatagct gaacctcttc tcccagcata gaagaagaga atgtgaangc atgaanggtg 480
gagtcagaca tntggaagca naagtgaaat ccatgtactg gcggacttgt tacaannggt 540
gaaanggggt 550
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<210> 10027

<211> 545

<212> DNA

<213> Homo sapiens

<400> 10027

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gagacggatt ctgcctctgt tgccaggctg gaggtcagt gcatgatctt ggcggctcac 60
tgcaacctct gcctcctggg ctcaagtgat tctcctgcct cagcctcctg agtagctggg 120
actacagtg cagccacca caccagcta atttttgtat ttgtagtaaa gacgggggtt 180
caccgtgttg gccagcatgg ttttgatctc ttgacctcgt gatctaccg ccttgacctc 240
ccaaagtgac ggaattacag gcgtgagcca ccgcgcctgg ccganagtgt gattttaaaa 300
tacaaccaca ccagtctggg gtctgtactg ccaaccacct gccttattgg gctcttgcac 360
tccaagccac tatctttctg ccctaatac cccaaggcca ggtgtcaggc cgntaggcag 420
cctntatgcc ccagagccca caaatgctt catatctgnc catctgaanc tgnttggtg 480
gccttgcctt tttttccat ccaancctta ttaaaagctt tngnccaaag tccctcatga 540
atatt 545
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<210> 10028

<211> 570

<212> DNA

<213> Homo sapiens

<400> 10028

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cttttttttt tttttttttt ttacaggaaa gccatttact cctggtgaat tcctcagggt   60
cccaggttca acactttccg tgatgtcaga gtactcagtc agggatgatg gggacagggt  120
gtcagaacag tcttgatggt cttgccagca acagcttttt cttattttcc ataatttggg  180
cttagtcgtt ctccagttgt cttcatgtaa ataaagtggc ccatggcaat catgattctg  240
taattgttat agtgcctttg taagttgaca gtttccaaat ccccttactc atacgacccc  300
tgtgaagggg ggtgtgaagg ggttggtggg cttgtgcata tgagggaatg tgaacgattt  360
cattatgacc gaattatgct ttactcaata agcactcaaa cactaccatc tcactttag  420
tagaagtgtc agggatgcaa ccaagaaact ggttgaataa tgggaangtt aaatgcctga  480
gtattttaat ngaaaaaaat nttaaaaacc aaccctaaact cgttgggaaa gangcttttg  540
ctanggcctc ctttttacaa ngggttggcc                                     570

```

<210> 10029

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10029

```

ctttgggaga cagagtttcg ttcttgttgc ccaggttgga gtgcagtggc gcggtctcgg   60
ctcactgcaa cctccacctc ctgggttcaa gcaattctcc tgcctcagtc tccctagtag  120
ctgggattac aggtgcccac caccacaccc aggtgatttt tgtattttta gtagagatgg  180
ggtttegcca tgttggccag gctggtcttg aactcctgac ctcaggtgat ccaccacat  240
tggcctccca aagtgtggg attacaggcg tgagccactg cacctggcca agtgtacatt  300

```

cttaagaaca acgtacatag attggggaaa agtatctcgt tttcattctg agagctaata 360
 caactgagag tgtacgaaga ggtcaaacac agggactgct gggtggaaca cactgncact 420
 ccacctnccc ctneccctct gtgccacaca cctgatgtgg cccacccaa cacagncacg 480
 anccttctac cccccancan ctgccaaggg ccctgagttt aanccaaaaa aggagcangg 540
 gcatncttt 549

<210> 10030

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10030

gagacatagt ctcactgtgt cgcccaggct gcagtggcat gatctcagct cactgcaacc 60
 tccgcctcct gggttgaagt gattctcatg cctcagcctc ccaagtagct gcgatcacag 120
 gcacacgcca ccacgcccag ctaatTTTTg tatttttagt agagacgggg cttcaccatg 180
 ttggtcagga tggctctgac ctcttgactt tgtgatccgc ccacctcggc atcccaaagt 240
 gttgggatta caggcgtgag ccaccacgcc cggcctcaac tcttaataata tgtcagcccc 300
 tcctttgcaa ccagctctgc gtgctgctgc tgacaagcag catggtgtgg aggcattgga 360
 tgtcctagag tccagccaac ctgagctctg tgatcttggg caagttattt cccttctttg 420
 agtgtcaagt tttcttcac tattaatgg ggtcatcact ttcacttgn ctagaaaagta 480
 tccagataat acacagttag cacagtgcct ggcccacagt aaaccttnga atggtgnagc 540
 ttcatgaaaa aaa 553

<210> 10031

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10031

attgcagttc actttattgc acgtcaagat attgcctttt tttttttaa caaattgaag 60
 gttcggggta actccagagt caagcaagtc tattggcaac attttccac gagcatgtgc 120
 ccactttgta tctgtgtgtc acactttcgc aattcttgca atatttcaa cttcttcctt 180
 attatatctg ttgtgaagct ggttctccca gacgttcctt gcaggctgtt tatgcagcgc 240
 ccatccgaga tgaaccacaca ggacactcag gatcccagac tgcaggagtc gtctgggagc 300
 acaggcgggg cagagcaatt tgtcaatgtc tatgaggagt cctccttggc agcccagctt 360
 ttatcctcac tcacgtggaa atgagattcg acctctccta atcacctggt gcccagaggag 420
 caggtaggcg cctgtcccaa gcctgagttt cctgggaaat ctacatttca gcacagatgg 480
 gttcccagca gcttantgct ctggctgncc ttangncaat gaatcatttn acccctaggt 540
 ttttgntgg tggtttgaaa a 561

<210> 10032

<211> 563

<212> DNA

<213> Homo sapiens

<400> 10032

cattgtacaa tgctaattgtt actttatctt gaaaacaatc ttgagaagta ggaattattg 60
 tcctctttca caagacagga aaaatgaggc caagggttag tgacttgctg agggtcacac 120
 agtgacagag tggatctctg gtccctgtcc ctgacttctt ccctagggct cctcctcctg 180
 ggcatctcac tcagaggaag cagggccatc agtggtactg gtgccagctc ttggggagct 240
 attttcccc aggtgggtta agttctctcc tagtatacaa caggatgggtg gctacaccgt 300
 catgataggg agaacagcta tcttaggagg ctgcttgcta gacagagatg ggtgtgtgtg 360
 cgtgtctgtc tgtctgtctg tctgtctgtc ctgggtccag agccgtcaat tcttcagcct 420
 cagtcttccc tctattgccc tctcctggac atagggaaga agtgcctctc cctgctgccc 480
 ccaggattac tccctggctt tttcactttt cccacattca tcctgaantg gccctttggc 540
 tgtcaccaag gnccggctgg gcn 563

<210> 10033

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10033

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ggtggaagaa acagatacat cagactagtc cagcgtctca gttccacac ttcataacaa   60
tggggcaccg tgcacctagt gtctaactta ccacgtgcc tttgggccac aaattccata  120
ctgtaacagc caattaccca aaacactaaa tagggaatgg ctcaaaaaag gctgtttctg  180
aaaaagcagc agcattttga tgagcaaaaa tagtaagaga ggatttttta aacttagaaa  240
aacgaggaaa gttgaacca gctaagaata tttctgagac acccccacc cttgttgatt  300
tttctccgc taggattttc cttgactcg cctctttaga gactgctaaa cacacacaca  360
catacacaca ctcatTTTTT aatcccacca actctcctcg cccaaggcc agaggcttgg  420
cggtgacagc ttcgaacaat gacatcacc taggtttgcc tccttggcag ggtcaccaat  480
actgnttgca gtcaatttcc tgtaaaggct ctttaangna ngaaactaat cctgngccct  540
gaggccttcc ctgngntgaa c                                     561

```

<210> 10034

<211> 556

<212> DNA

<213> Homo sapiens

<400> 10034

```

cgaccaatat ggtttatttc tgccccagcc aagcttcttt ggaccctggc tgggggaaag   60
gcaccccagg caccggcaag ttccagtcac tgcanatcct ccaggcttag gtgtgactgg  120
tagtagcctg ggcaactgtg ctggacgttg tattctcctt ccttcttccg ccggcgggtg  180
gtcaccagga caccganat caggcatgtg atgagtccca ggagtctgc caagccgatg  240
aagatgacag ccanaaggg aaggtcanaa ttcccagtta agggtcatt tctgttggga  300
gaatacccat ccacaaggac actgctcctg tccagggtga agttctgcag ctgggtacca  360
ttccgggtca tccgcagaaa ttctcatag atggcaactc tgnctactct ccgagccagt  420

```

ggcgaaaagt tcacagggag tccaccccgg tgtggtgcct gttggggaca gacctgaatg 480
 ttgaacttga cagtengaaa aatactttgg agctgctgtt tnggaaaaaa ttgtttaacc 540
 catnctcaan tttcnt 556

<210> 10035

<211> 544

<212> DNA

<213> Homo sapiens

<400> 10035

aagtaagaag acttgtcagc tgcctaggtg ctctagaggc aatgcaagtg cttccacaga 60
 gaagaggcag aagaaacaga ggCgggaaaa ggtgcagggt gcagtctagg agactgctct 120
 tatcatgctt caaggggccc actccactgc agtgggttct caggacaatt ttttttttc 180
 cttttttcta tagctaaatc tgcaggatag atcttcagta tcttaaaatg gttacttta 240
 attttttagaa gatttaggct taactgtaag tcccttaaac tcttaaagtc tatgtcttta 300
 gctacaaaat gaagaattaa agtaggctat ctctaaggnc tcttgcactc tctaattcaa 360
 tgagaaaact ctcattaatt tcatcacgta tgatgagtag aaaataatca atgaacataa 420
 atgcatactt atgcaagggc atcttatttt aaatttgata tggataaata agactactta 480
 tggatttact ggnatcaagg ngctggaagg attgagaaan acaagctncc ctgnanancc 540
 cccg 544

<210> 10036

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10036

cttgagacgg agccttacct tgttgcccag gctggagtgc aatggcgaga tctcggtca 60
 ctgcaacctc cgcctcccgg gttcaagcaa ttctcctgcc tcgaactccc aaatagttgc 120

gattacaggt gagegccacc atgccagct gatttttttg tatctttagt agagacgggg 180
 tttcaccacg ttggccaggc tggtctcaaa ctctgacct tgtgatccgc atgccccggc 240
 ctcccaaagt gctgagatta caggcatgag ccaccgtgct cggccaaaaa tgaagcattt 300
 cttattagta gaagaaagaa gaccagctaa acaggaagca taatgaactc ctagctaagc 360
 tcagaggaat ttgtctgcaa aacccttaca gaacaccaca caatcaaatt atttgctcca 420
 tagcaacttt acccccaaag tgcanatctg tttggcttat tggttgagg gctacctgcc 480
 aggatctang nccatggtgg cttggcctct gagctctggc tttncatttc cacnggtttc 540
 tgggtgggggn ccctaaattg g 561

<210> 10037

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10037

gaaaagtata taacagattt ctttattatt atttacaatc aagttctgtt ggccaacata 60
 atgaaataaa taaaagatgt gccctggcct gtgaatttca actctccttg acttaagtgc 120
 tctgaagggc aaatttgaaa gcggtgatca ggcaggggaag agagggcagg tggaggccag 180
 gaccatcggg gggaaggccg cctgactcct ctctcaccag ctctaact caccatccca 240
 aatgtccaga gaacaagcat ggaagaaaaa aaataaagtg caaatttaaa agtgataaaa 300
 aggggtgttc gcacacccaa tgaactaaaa ctttatacgt aggtaaaata gtaaagataa 360
 atgtttttcc ttggccttca tcacaacccc tgaaacggaa agatggcgct gctgtgcttc 420
 tgagcctagg ctctttacct aaagcaccaa gggcatcgca cacangcttg gcaaaagggc 480
 catggncaga atcccacctt nagacaagta tgttggangn ctcgaaaccc ttggancccc 540
 aacatgcang ggg 553

<210> 10038

<211> 541

<212> DNA

<213> Homo sapiens

<400> 10038

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anacggagtc ttgctctgtc tccaggctgg agtgcagngg ngngatcttg gctcattgca 60
acctntgcct cccaggttca agngattctc ttgcctaana ctcccagta gctgggatta 120
cagttgcatg ccaccacacc tggctaattt tttgtatttt tagtananat ggagtttcac 180
catgttggcc aggatggnet caatctcttg acctcatgat ccaccacct cagcctccca 240
aagngctggg attacaggng tgagccacca caccggctg tcagtnttt tataccatt 300
ttggggaggg aaaaactgag catcccaga tgaagtaact tactcagggc cgtanaaatg 360
tgacaaaaat caatcttatt gactcattct aaaagcaact cattgcctct taaatgaaga 420
agaaagacat ccttcagctg gctcttgggt tcanaccccc tgggctaagt caccttggct 480
acatggntca tcanaatgcc cactcttgg acctttangg ggccacaagt ntttattgga 540
g 541

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<210> 10039

<211> 566

<212> DNA

<213> Homo sapiens

<400> 10039

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gggttgtgca aagaaagctt tttatttgag aacacctaga tacttttgga aatgttcttg 60
ttggatcaca aacaacctaa ctgacagtct atcgccaaca tccacaaaca cagcaaacag 120
tccagtcttg cagaccacac aggttacatc tagagggttc tacttgcatc acccacactt 180
ccactcctgt gaaacaactg tcttgggcat gagaagggcc aggataggcc aggtgaatgg 240
caggctgccc aacaaccca atcccaaacc aacctcccag gccatgggcc caagtccctg 300
caggaagatg ctaataggta caacaggtag aacatgtaga cacaacatc tagtttattt 360
tttctgactg taaccaaagt cagcaaaaga aacaacaaaa cttcagtgcc ctagaaatcc 420
tcctggattc aatgacaaca catcaatggc cgggcacang gttggattcc ttttatgaaa 480
tcaccttata atctctcatc atnccaggac agtggctttt gggactgcat gaatcnttna 540

```

tagctcccc ccaaattntt atcctt

566

<210> 10040

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10040

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gggcagcttt catctgtgtt tatttttttt catataaaag ttacatgttt gaaatgtctg   60
caggaagatg ccaccatcag acaggtttagc tggggcatat atattacaat gtaaccctgt  120
ggaggtcgtg gggccggagc gggaagatgc tcccagtgag ggcctgggga tttgcctggg  180
cacactgggg ccaggcacag ggtctgttct gaattcaggg aaggtgaaga gaccccacct  240
ctatccagct caagcccaag aacaaggcag acagagctgt ggacagcacc cgaccacaga  300
cacggttctg cctgctgctg gagtgaagg cctggtttct gaggctgcag catggcactg  360
gcattgcctg tgctacagat ggggactcct gcgagtctca caatacagg gagaatttca  420
gttcacacaa cccaagggcc ctgtgtgcaa agcgggcctt aaacgcgcac aggaacattn  480
aacaaaactt ggcaagggga agggganaaa anatcaaggt ttgnaatgaa ggncttttaa  540
aaagaaggnc cnacttaaaa c                                           561

```

<210> 10041

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10041

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gatacagagt ctcactgtgc caccaggtt ggagtgcagt ggcgtgatct tggctcactg   60
caagctccgc ctctgggtt cagccattc tctgcctca gtctcctgag tagctgggac  120
tacaggcgcc cgccaccaag cctggctaatt tctttttgta ttttagtag agacgggggtt  180
tcaccgtgct agccaggatg gtctcgatct cctgacctcg tgatccgcc gccttggcct  240

```

cccaaagtac tgggattaca ggtgtgagcc actgtgcccg gcccaatttg ttttttaagc 300
 cctgatgttt tctcagttgg gtttgaactc agtccctcta caaagtcatt ctaaactatt 360
 cctagactga tagaccattc ttggattgga ccattcctgg attgggcaat ggcaacactc 420
 ttccagaaac cattagaatg actctaaaga gagcagaagc actttttctc tctgcctctt 480
 cctaaaggct gaatatatcc tattggccat gggctggtca attccttttg angtgaggga 540
 ttgactcctt ctcaactccc c 561

<210> 10042

<211> 505

<212> DNA

<213> Homo sapiens

<400> 10042

agatttaaaa gcatttaatg acatagcata tatttaacag atagggcaaa agttgagagg 60
 tacaggtcgt acgactgagc accaggcctg agcgaccacc tccctgttca ggcccagcct 120
 ctggagtcca ttcctatcaa tgtcattttg attgtgcagt aagatgaaaa ttgttcatta 180
 caatagttac agtgacagag aaatgcacac tatgtatcaa atagcaagga aatgaagcaa 240
 attataacac agtgtggcaa cgcacgagca agtaaccatt agagtaacat tactttgtcc 300
 agtaaagtct tcagttccac cacttgtaca cttaccaatg atttaaaggg ttattatac 360
 atctagtttt attatacttt gnactagaat tatctcaaac gtacaatata atgnatttca 420
 gcaaaaaaaaa aaaaaattgg aattaccgat tatttnaac agnntcaggt ttctattcct 480
 tcttggatac tggcantntt aancg 505

<210> 10043

<211> 539

<212> DNA

<213> Homo sapiens

<400> 10043

aatctgcaaa ccaagaacct ggaaaggaat acaaattcct tcctggaaaa catgtatccc 60
 ttcttgccct cctccacgc cctgataaat aacatgagca tgcagcgatt gccaacagca 120
 gctccaggca tgaggcacia catctgttac tgagacactg gagagacagt ggaaagcaag 180
 ttggctgcct gccaacccctc agactccaga tttttgctga caaggctgtc aataaatggg 240
 cagatggcat cagctctgct ggacagaagag ttcagttaac ccagtgcggg acattatttc 300
 aaattcatgg tgcaccaggc tgagcccttt gttgggccat taaagccatt ccttgatgga 360
 gaaggagag caggactagg aatcaggag gcactagctt catttaatta gattaactaa 420
 gcctttccag tggcagccag aatcaganta ncccttngga acnttgaaag ctatggattt 480
 ttttttgggt tttggaaggg ccgggaaaaa ncctanttcc acattgnatt ttatgccat 539

<210> 10044

<211> 539

<212> DNA

<213> Homo sapiens

<400> 10044

gagatggagt cttgctcttg ttgcccaggc tagattgcaa tggcgcgac tttggctcact 60
 gaaatctctg cctcctgggt tcaagcgatt ttctgcctc agcctcccga gtagcaggga 120
 ttaaaggcac atgccaccat gcctggctaa ttttttatat ttttagtaga gaaagggtgtt 180
 caccatgctg gccaggctgg tctcgaactc ccaaccttag gtgatctgcc tgtctcagcc 240
 tcccaaagtg ctgtgattac aggcgctct tttccttaat aatccctaat tcttggctag 300
 gttgttgggt aaaagttatt tcctgataaa caaggcgtaa ccttatatat attatcaata 360
 aaattatatg tataaataca tggaaatgca cgcatagtat tgcattattc aataagaagt 420
 tttacagctg aatatccctc ttaagaattc cttgagggcc aagactctat ttcctttttt 480
 tccttttctt ttttttttga anccgggttc ccaggntgga atcacagggg gggaacntn 539

<210> 10045

<211> 543

<212> DNA

<213> Homo sapiens

<400> 10045

```

gagacggagt ctcactctgt caaccaggct ggaatgcagt ggcacgatct tagctcattg   60
caacccccgc ctccccggtt taagcaattc tccctgcctt agcctcccaa gtagctggga  120
taacaggcgc cgcgccacat gcctggctaa tttttgtatt tttagtaaag acagggtttc  180
accatgttgg ccaggctggg ctcaaactcc tgaccttagg tgatccgccc tccttggcct  240
cgcaaagtgc tgggattata ggcgtgagcc accatacctg gcttgctgct accttttaa  300
tgtacatagt aatcaaactg atccacagaa tgtccctttc agggacatga taactgaccc  360
cctgaaccag ccagaaagag gagagggact tgccttaagc aagtattgtg ggaagatcac  420
caaattacta gacatggatc actatccntc tggatccggc cccaacaaa cnttaaaatt  480
acctaccaaa acangngtag aacaatntga aatggaatta aaaggngccc caaactggat  540
tgn                                                                    543

```

<210> 10046

<211> 510

<212> DNA

<213> Homo sapiens

<400> 10046

```

gctcttgttg cccaggctgg agggcagcgg cgcgatctca gctcgtgcaa cctcagcatc   60
cctggctcaa gtgactctcc tgcctcagcc tcccagtag ctggaattac aggcgcgcac  120
cacaacaccc agccaatttt ctgtattttt agtagagacg gggtttcatg ttggtcaggg  180
tggtctcaaa ctctgacct caggngatcc accaccttg gcctcccaa gnggtgggaa  240
tacaggcatg agccactgng ctcaggcccc aagcccccat tctttctgta acctcaagat  300
ggcatataag cttctgcacc ccattgcana gtggggagta atcaatcact ctgnggttct  360
ccctgtgtgc gcattaataa atttgcacgc catttctgct attcatctgc cttttgncag  420
ttgacttttc agtgaacctt tanagggcaa aggggaaagt ttcccttgnn tttcataccn  480
tcaaaccttt ttcaccaggc ngaaanaagn                                                                    510

```

<210> 10047

<211> 423

<212> DNA

<213> Homo sapiens

<400> 10047

```
gcttagaaaa ttcagcttta atggccccag cccttctgtc tgagtctagt agtccagggc 60
acagatgagg gccacaccac gctttatcca gtgtcgctgg ggctgatggg tggggatctc 120
cacagcaatg acatagttgg tagagtgtcc tgtggttgat agtggtccag cacgagtcag 180
tgtctttag atggggcaca ggtaaaagtc ctggctcctg gccttgcggt tgggtgttgg 240
caagagccag ataacggcca tctctgtgta cagctccttg ggctgagact cagccagctg 300
gaaggcctct ggatcccagc gggcaccttc caggaataat ccatggatat agcacccctac 360
ttggggctct tngttaaact ctgatgggtg ctnaaacatn accttgnaat caaangana 420
tgn 423
```

<210> 10048

<211> 540

<212> DNA

<213> Homo sapiens

<400> 10048

```
gagacggagt cttgctctgt caccgggct ggagtgcagt ggcgcatca tggctcactg 60
caagctccgc ctctgggtt cacaccattc tccagcctca gcctcccaag ctgctgggac 120
tacaggcgcc caccaccag ccaagcgaat tttttgtatt ttttagtag agacagggtt 180
tactgtgtt agccaggatg gtctcaatct cccaaccttg ngatccaccc acctcggcct 240
cccaaagtgc tgggattaca ggcgtgagcc actgtgcctg gactaaaaca atgctttcta 300
aagcgcattc tgcagcctga tgtgcctgtg aggtgagagg tgtgggaggg acagaagctt 360
tgttcaaaga gggttgggag aggctggata cttagctccc ttcttgnaag tttgccacac 420
```

acattggcat attaaagggt ctgagaaagc attcaggga ctggtctggt taaggggccc 480
ccaataactt ggcccatna cggntaattc tgggaantta gttaataacc taggggtcgg 540

<210> 10049

<211> 497

<212> DNA

<213> Homo sapiens

<400> 10049

aaagacagag ttttgctctg ttgccaagc tggggtgcag tggcacgac tcagctcact 60
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ttacaggtgt gcaccaccac gccagcaaa tttttgtatt ttagtagag acaggttttc 180
accacattgg ccaggctggt cctgaactcc tgacctcaag tgatccacct gtcttggcct 240
cccaaagtgc tgggattaca tgcttgagcc actgcacctg gcccataata gagtttttat 300
tgncattatt cccatattac agatgaaggg actaaggctc aaagggtaaa taagtctgtt 360
cttaaatagt gacttcctga gacacaggag atgtttaaga acagtactgg taggtgggaa 420
gtggcatttt ggagcaggag tgagaagcct tgaaaatgta tnaaganttg aaaaagggnn 480
gggaaacann ccnatta 497

<210> 10050

<211> 527

<212> DNA

<213> Homo sapiens

<400> 10050

aattggatga ttttggacaa gtctgtgcat ttattcatat cttattccat gtcaggggac 60
tcagtacaaa ggtgaaaaag acaaagttgc tgttctcaag gagtatactt tagacacata 120
agctagcaat aaacaaacag gatgatttta gctcatgaca gggctacaca gacagtaaca 180
gtgatgagat agagtgatgg ggaagaggtg cttaaaatgg ggttgtcagg aaaggcctct 240

gctaaccacc agatctcatg ggctcatctt gagatttaac ccagcaaacc tcttctgagc 300
 cagttggcac cactgatctc cctccctcc tttaaactgt tgccttcctt gatttctgtg 360
 acaagatact ggtgtcacta tctccttgnc tctctctact tccagctccc tctttcagcc 420
 ttctatgcag gcacatcttc ttttgccacc cattaaaatc cctggtngcc angacaacca 480
 ttccttctgg cggnttgaaa gaaagctcaa gtgcncacaa ggccnnn 527

<210> 10051

<211> 564

<212> DNA

<213> Homo sapiens

<400> 10051

aaagacacgt gtctccctct gttgtccagg ctagagtga gtggcatgat catagctcac 60
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 actacaggcc catgccattg tgccctgttg cattcttttt acttttttgt agatactggg 180
 tctcactgtg ttgcttaggc tggctcctaa ctccggggct caagcaatcc tcccacctcg 240
 gcctctctaaa gtgttcggat tagaagcatg gaccactgca cccggccttc tgagctcttt 300
 ttcaactagg tctcaacttt tggacttctg tgttcatctc tgccttggtc aatttttagca 360
 agtatcgtgc taaagttggg tttagctaga atcctcatcc tncacatctg atcactctca 420
 aaatctaate gggcttctta tctntggca tcttcatga atggctaatt accctgggct 480
 ggccctnaac aagaaatcct ggtanggact atttaaccgc aattccccac aaatgcctgg 540
 aggaancctc ttanncattg ggc 564

<210> 10052

<211> 555

<212> DNA

<213> Homo sapiens

<400> 10052

acaatgctaa tgttatTTta tcttgaaaac aatcttgaga agtaggaatt attgtcctct 60
 ttcacaagac aggaaaaatg aggccaaggg ttagtgactt gctgagggtc acacagtgc 120
 agagtggat cctggtcctt gtccctgact tcttccctag ggctcctcct cctgggcatc 180
 tcactcagag gaagcagggc catcagtggg actggtgcca gctcttgggg agctattttc 240
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 aggagaaca gctatcttag gaggtgctt gctagacaga gatgggtgtg tgtgccgtgt 360
 ctgtctgtct gtctgtctgt ctgtctgtct gtctgtcctg ggtccagagc ccgtcaattc 420
 ttcaacctg ncttctctta ttggcctttt ctggacatag ggaanaagt cttcttctg 480
 gtgncccaa gaatactcct ggctntttca nttttcccaa atccatcctg aaatggncct 540
 ttggcttgcc ccaag 555

<210> 10053

<211> 529

<212> DNA

<213> Homo sapiens

<400> 10053

aaagggcaca catacacttt taccgtttac accaaaccag aatcaaaacc caaatcagag 60
 tatccagaaa tccaagccag gtcaaaacca aaacgaaagt atcaagcaat ccaaataag 120
 tcaaaaacaa aaaccaaagt gccggtacag gcatgccgtg ggtgatcagg ccacccttcc 180
 actcaaatgg agtgggcaag ttccaaagac tagtcttacc aagtttcaga tgtccggact 240
 ccaagtgcct gttccttccc agtggtcagc cgctgcattg atcctctgtg gtggcctgcc 300
 acagccact ctggcgagggt gttccactgg ggcaattgcc taccgggag tgctctcagg 360
 ttctgcgtcc ctcaagctgg ccagagtccc ctgtagggat gctccacagg gcaggcctat 420
 gctgcctaag gggcttgctt cgactatctg gtaatcacct ggctttccaa tcagggnacc 480
 ccagaaatgt ancanggaca agnccgnang ggttgattt cancctgga 529

<210> 10054

<211> 496

<212> DNA

<213> Homo sapiens

<400> 10054

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gagacagagt ctcagtcacc caggctggag tgcagtgccc cagtcttgac tctctgcaac   60
ctctgcctcc tgggttgaag tggttttcct gccttagcct cctgagtagt ggggattaca  120
ggtgtccacc accacgccc a gctaattttt atatttttag tagagacggg gttttgccat  180
gttggccagg ctggtctcaa actcctgacc tcaggtgata cgcccgtgc agcctcccaa  240
agtgtcggga ttacaggcgt gagccaccgc gcctggctaa agcagtggtt tttataaggt  300
atctgtcca gtttctacct tcggtagtga caatgtgttt gtttgcatth cccacacgtg  360
tgtccaatgt ttgcttggtt tcttcttcag gaaatcaact tttgtgagt gtgctgaagg  420
caacangctt tgccagtaca cagaacttcg tgaaaaccac tngaaacngn cacttgctca  480
tctgnccntt ctgnngg                                     496
    
```

<210> 10055

<211> 462

<212> DNA

<213> Homo sapiens

<400> 10055

```

gagatggagt tttgtcttta ttgcccaggc tggagtgcaa tggcacgata tcggctcaca   60
aaaatctcca gctcccgggt tccagcgatt ctctgcctc agcctcccaa gtagctggga  120
ttataggctt gcgccaccac acccagctaa ttttgtatth ttagtagaga tggggtttct  180
ccgtgttggt caggccggtc tcgaactccc aaactcaggt gatcagccca ccttggcctc  240
ccaaagtgtt gggattacag gcctgagcaa ctgcgcccgg gctttttttt tttttttaaa  300
agatagtctt gctctctcgc acaggctgat tgcattggtg cgtgatctca gctcactgca  360
acctccgcct cctgggttca agcaattctt ggnattttt agtaaaanat ggggctttcc  420
atattggccc aggctggnet aaactcngg ncttaaacca nn                               462
    
```

<210> 10056

<211> 417

<212> DNA

<213> Homo sapiens

<400> 10056

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gcaaagacaa acattttatt ttcatgata ggagctgtag cagagtatat gggggcctct 60
gccagcccc aggctgggac tggggcctgt gaccttgaga acctcatctc acattctgca 120
gactttggcg gcggggcagt gctcgaccac tggctgggtg ggctgatctc agcctctcct 180
gcaggccccag ggctgaaatc ataaccgtca ggcccagcct tggccaaaga taatgcaact 240
ttggcagggc tggctgctgg gagggggcag gcacttgctc ctcgtagagc aagagtgggt 300
ttcttcctg accctccctt ccaccccggt aggggtggtt ccttaggaac tcaggcctgc 360
gggagaaatg gttccagctt ctggaggctg ggtgggggtg gggttggggg nnnnnnn 417

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<210> 10057

<211> 437

<212> DNA

<213> Homo sapiens

<400> 10057

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gaccagaaag agactttttc taatacagca gtgttttggc tgggacaggt tggccggact 60
ctccaggaac gtggtgaaga gcgtggggga ggcggtgag gcagggcaga gccaggtg 120
cagagctgtg tgcttcacaa gttggctctg tggtcgggaa ggctccacgg ccataaggac 180
cctggccttt gatttcctgg gaggaacagc acttgggaac gagtaagaat ttcaggcaat 240
cacctgggtt cccaatggc tttcttgtct cacggacagt ttaacaaagc tggcagagtc 300
ctgtaactag gatctgtaac ttgggggta agggcaagta ggaacagaca tccaaaacaa 360
ctgagtgtg ggataaaggc ttgaccggaa agatttcagg ggccnnggct ttgtttgcat 420
tntggnaaac tnntcan 437

```

<210> 10058

<211> 550

<212> DNA

<213> Homo sapiens

<400> 10058

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ctagagtttg tctatatttat tagtcttttt aaagaacccat gtatgtcagg tttccttcag 60
gaaatagatg gtgtattcaa actggataat ctaataaagt tatatttata aaagtataga 120
aagagtatag tgaaaccaca agtaatagca gaatcccctg ggactgggac aagaggatgg 180
agcagtcacc agaacctgga gacagagagg gctgcctggc ttcagataat gtcagcatct 240
gtgctgtatg agttccagtg tggcagccct ctctaaatt accccaattc cctctggatc 300
tgggatctgc tccctcctct tgcccctgag gtctgggggt gggaaaggct cccactctt 360
gctagttcca ggggtgcttca ctggccttta tgagtttccc ttcaccctgt tcacaccttg 420
gtgaatattc tcttctgac atgctcctca gttcnccact tgaatgggcc atctgnttct 480
tggcgggacc ntgactgcac tggttcattc caanctgggtg agctgggctt taaattggnc 540
ctgggtaacc 550
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<210> 10059

<211> 552

<212> DNA

<213> Homo sapiens

<400> 10059

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gagatggagt cttgctctgt tgcccaacct ggagtgcagt gttatgattt tggctcactg 60
caacctctac catgttcaag cgattctccc acctctgcct cccgtgtagc tgggatcaca 120
ggcacacgcc accacaccta gctacttttt gtatattttag tagaaatggg gtttcacccat 180
gttggccagg atggtcccga actcctgacc tcaagtgate ctctgcctc ggccttccaa 240
agtgctggga ttacaggtgt gagccactgt gcctggccaa aaatgtgatt tcttatttcc 300
cacattgcc aattcatttc aattaactat aatagctatg tctattgagc actcaagcgt 360
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attctagaaa ctgttcctga ttctggggat atatccatga atgaactata gtccctgtta 420
 ttaagtaatc cgtagtctga ctaaaccatt agaaattaaa aaaaaaatgg ctactttcaa 480
 agacatcttg gagttcanga gtcccacact gggaaccatt ttacctaata atncaanctg 540
 nttggaatta ac 552

<210> 10060

<211> 558

<212> DNA

<213> Homo sapiens

<400> 10060

catagggtct cgctctgtca ctcaggctgg agtgcagtggt tgtgatcatg gctcactgcg 60
 tcaactgtagc ctcaccctcc tgggtctcaag tgatcctcct gtctcagccc tcccaagtag 120
 ctggggccaca ggtgtgtgcc accatgccca gttttttttt tttttttcgt aaanatgggg 180
 gtctcactac gttaactggg ctggtctcaa actcctgagc tcaagcaatc cttccaactt 240
 ggcctcccaa agcgctaggc ttacaggaat gagccaccgt gcctggccan aatcggttac 300
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 cacactttct cctactattt taccacacc ttcttgctgg gaggctatta aacctgaagg 420
 tctggtacta tgtantgggtg aagggtgana tatggattca aaccacactg gggtttaagt 480
 ccctgnnttg gcaattaatt ttaatgggac ccctgggcaa ggggaaccnc cctttttggg 540
 ncctgggttc cctngttn 558

<210> 10061

<211> 558

<212> DNA

<213> Homo sapiens

<400> 10061

ctgctcgggtg ccattttatt taatgcaaac actagacagt ttacaagtca cacctggaca 60

caagcacgtg aacagatgta cagggaattc tggaattttg agatcagtcc ccattttctc 120
 ctcagggccc tgggactgaa cacggtctca cagacagcac atattctacg tcacagctct 180
 agggtttcaa ggacttagcc atccgacagg cctcaccata aaggtaaagt ggacaacccc 240
 tgaggtcacg ctgtccaggt ggcgacaggc cagcatgcc aaaatcctcc atagccacct 300
 ccggcccagc accagccaga ggggtggggcc atcggttctc gacatacttg gtataaggga 360
 gggacaagcc tgacaaagtt cacaatctgg ccaatgagtg tgggaggccc tggaaacagg 420
 ccaatcctgc aagccacccc acccttacta acttcctgaa catgggaagc tttttgagac 480
 caggnccaag gttcttttcc tttattggga ccacgcaaaa ggcatttntg cantgcttga 540
 aggtccccct ttaaaccn 558

<210> 10062

<211> 540

<212> DNA

<213> Homo sapiens

<400> 10062

aaagggaaaa aaaatttatt aggtccagga atcaaagatg acttgataga attatgaata 60
 catgcagaat tggatggtta gaaatgaaat caatctattt aggtccagcc taaggttctg 120
 atagccaatc agtagacaca atcagagtag tagtattcct aagaaaccag gataaatctc 180
 caatgtgcat gagtttaatg aaccagatag attattgtat cgccaatatc cacccttate 240
 ccattctcag tcagatgaat tttcttgctc atgaggtcca cattgaaaac agcatgctca 300
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 agtggatcat caaatctcat cagtttcact ttggaaggt ctttaattcc tcgattcatt 420
 ttcattaaac gcctgattat ggaatcacag ntatctnct gnetggattt caattttggt 480
 tgaaaagtgg ccttggatgg ctgggggatt ccncgaaaa accggncccn ccaaggttct 540

<210> 10063

<211> 550

<212> DNA

<213> Homo sapiens

<400> 10063

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ccaagtccct tatTTTactg atgagaaaac agccagagag tgaaagctga tgattacaaa 60
tcacagccat ganagctggg ctctgcactc agccctgctg ggctgggtgg ccgctgctca 120
cggngaccct tcaaggcagg cctcattctg tccagtanag gtgtggttac taagtcatag 180
agctacagag gtgagggacc aggtgccctc actttggttc caagaccat ctgcacccca 240
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tcctgggagc ggagcaacaa aaaggctcgg ctctgcccc cagaggacag taaggcttat 360
gtgtctctcc aactgcagg gccaggtctg ggcaggcagg gggTgggaag caggacagg 420
ggcagggaag gaaggttgn aggcaggga ggaatggca ggtggctgga acccangaaa 480
gccaagggga nccaacttgg nccttgggcc ccaggGCCa ncccaatac tncngTTTTc 540
cTTTTcctg 550

```

<210> 10064

<211> 548

<212> DNA

<213> Homo sapiens

<400> 10064

```

aatggtgatt tttctttatt tccccgcacc ttcaatctca tggcatggtc tgcaggaaac 60
ctcagagtc tgccaactcg caggcttcgc tgatcgcatg gcacctgggc accccGCCa 120
agagctgaaa ctccaaggc tcagccagga ctctccagct gtggtgtttc taaaagccgt 180
tctgggtgag atgtagagcc gagttttccc agtcgctcag tcctcctccc gtgaggacaa 240
cactgcttgc tctcctggt tgcctcacc atccaggaaa aggtggggag gggctctagg 300
cagcggcctc tcctggttga aagaaactga gacctgggcc ttccgtccag tttaacctgg 360
agcaggcctg gcccctgggc aggtcagag caggTcccc attcagcaaa tgagggtatc 420
ctcctatTTT gccaacatcc atcttcaccg acttggcctg aaccattct tgagtacaga 480
nggacacca tgacagaaat nccangtnac ttttgcTgga agccactggg ctggaanagg 540

```

acttnttt

548

<210> 10065

<211> 550

<212> DNA

<213> Homo sapiens

<400> 10065

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agacagagtc tcactctggt gccaggctg gagtgcagtg gtgcgatctc ggctcactgc   60
aacttctgcc tcccaggctc aagtgattct cctgcctcag cctcccgagt agctgggact  120
acgggagcat gccaccatgc ccagctaatt tttgtatitt ttgtagagac ggggtttcac  180
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caaactgctg ggattacagg cgtgagccac tgcacctggc cccccctctg ccctctcttg  300
agaggcaagg cattttctat acaggggtga ggaaaagtta aactttctat acagtaagtt  360
agcaatgccc aaatcccaac tgagaaacga tgtaaatttt agtgataggg ctgtaaccac  420
taggtaatgg caaggacata aatcccaata ttcacaagtc cttgtgggga aggggtgtgat  480
attgnatctn cctgncactt tatgttcata tatggaaaca ttatggaaat gacctattac  540
catcttttta                                     550
    
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<210> 10066

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10066

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gcccccttta caggggagac gtaaagctgt cccagttatc aaaaaattca aatctccttt   60
tcttctgtgg actggctgtc aatgagcttt catccagggt gtctcccatg ttctgggaac  120
tacttccaga tgttccctgaa gcacttcctg ggtcaaagga ctctgtctgt tccaggagct  180
ccatatcact tccttttttc tcaaaggact tctggaatag gtcgtagatc ttctgcggct  240
    
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ttgggtcctt gtagaggtaa tcagtggatt ctgtcatttc tgaaaaattg gtctcagaaa 300
 gcccggttc tgccagaact ttaatcttct cttgaatcag gggccaaagg tagtcatcag 360
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 cgcggtcctc agcctggatc agcaccctg ggttccaaaa cagctcagca aacaccacca 480
 ggtcaaccca ngaaaangtg aagnccatat tggcagcggt gatggacagc acgggcacag 540
 catgctttt 549

<210> 10067

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10067

ctttgagatg gagtttact gttgttggc aggctggagt gcaatgccgc aatctcggt 60
 cactgcaacc tctgccttct gagttcaagc gatttcctg cctcagcctc ccaagtagct 120
 gggattacag gcatatgcc aatgcctag ctaattttgt atttttggta gagacggggt 180
 ttctccatgt tggtcaggct ggtcccgaac tctgacctc aggtgatcca cctgcctcgg 240
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 ggtctggttc ttgaagaagg tggtgccaac acttttaaaa agaacctaat ggaaaacang 480
 cttgggggtg ggaagggaag gggttgatta ataataagtt ttctccaaa tagccggaat 540
 ggaaagggtc tgg 553

<210> 10068

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10068

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atgtttcaca atttgtatgg ctgattctac gcacatttaa atgtgtttat gacaattgta 60
catttcagtt ttcctctggt taaaccaatg tggaagtaca caggatggga gctgagagac 120
aagcatcctg ggcccagcca tgctggcctc agtgggcca gctggggaca gatgacctct 180
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tcgctgaacc taagttagca ggaagtgaag gtctgttccc acctgtgcct gtgttcccag 360
atagcagctg cctccaggag actcaccagg agccaggctc ctccatacct gatctcaatt 420
aactcactca ccaaggagcc caggteccctn ccatacctga cctcaattaa acttaactta 480
cccaggagcc aaggtccctc cattacntn anttaccac aatcaagtnn ccttcanacc 540
ttatcttaat tan 553

```

<210> 10069

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10069

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caagtttagg gatgtgctct atatttgcatt ttttcttttt aaaaggcaca gtttttattt 60
taacgacgct gcattgctct ttgatgatga atctcaattc gactcctcaa actgtcaaca 120
ctcttgttat cctagattct agaaggggcc tcatcttttg acttctttct atagagggcc 180
acatctaaag ctacagcact catttgaaa aggacactgg gatcaacacg taagcgttgc 240
aagcacaggg gccgcctctc ttgcagacag gtggccaaag cagggttgt gctggggccag 300
aagtggaagt aattcctcgc cagctacaca ttcagtctga ctggtggatg attgggagtg 360
tttgtccctc cctcccccaa taattgatgg ccttgagatc tgccagcatc tcaaaggcag 420
attcgtggct ctgttcccag acttaggtct cagttattta attggtaa at gacacaatca 480
aagagactca acacttaatt gggaatgctg attcaagtat ttcctgggct aactngtgga 540
agccataaat tgg 553

```

<210> 10070

<211> 504

<212> DNA

<213> Homo sapiens

<400> 10070

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gaatggaaga tattgcaaca ctgggccac agattttagc aatagcaaca ttgcaggga   60
gctggtagc agttgccctc atctgatagc acatgcattt tctagctccc tcaagttctc  120
tctgctcact ttggtacctg cctggctttt atagacatca gagtttgaaa tctttttggt  180
tgtttgtttg tttagacagc ggtctcactc tgttgcatag gctggagtgt agcggcctga  240
tcacggttca ctgcagcctc tacctcccag gctcccgaga tcctcccacc tcagcctccc  300
acctagctgg gaccacagcc atccaccacc ataccagct aactttttgt attttttgta  360
aagaccatgt ttcgtcatgt tgctcaagnt ggtctcgaac tcctgagctc aagcgatctg  420
cccacctggg cctcccaaag tgctgggatt acaggcgtga ccactgngc atgacctgaa  480
atnnttattt natngnnaa cttt                                     504

```

<210> 10071

<211> 569

<212> DNA

<213> Homo sapiens

<400> 10071

```

gttgctttcc cagactttta ttgaaatgt gactgctttg taaaactcca gagtcaagga   60
ctcataggca ggaggatgtc ataaattaac aggaaaggat gagaaatctc cactccactc  120
cctcctccct cccttgatca ctcatccct ctcttacatt cattaaccac ccactacatg  180
ccatgcccta aggaagcagc tatctaagaa gtccctgcct gcaggggctt tacagaccag  240
gaggaaggca acccatagag ccaggatcct gataaccact gctgactgcc cctctgccta  300
ggcaccagct aaggtggctc caaaaagtga ggccttgntg ggaaggggaa aaacagcaaa  360
ggtcagcttg gatgaacca tccagaattt tgcaatcaga aatacctana aaagaattat  420

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tttagaagaa caggggggatg ccagggcctg gggatgagga atgatgtttt cagtgcctaa 480
ggcccctgaa ngctcttggtc ttctgtctca aaaacgcaag gggggtccca ggttgccttt 540
tcanagcttg cctttaatnc tggcanttc 569

<210> 10072

<211> 570

<212> DNA

<213> Homo sapiens

<400> 10072

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cctgctgctg ctgctgctgc ctctgctctt gccctcagtc cccgtcttc cacctgggtc 480
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<210> 10073

<211> 564

<212> DNA

<213> Homo sapiens

<400> 10073

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ttacaggtgc ccaccaccac acccagctaa tttttgtatt tttagtagag acgggggttc 180
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 gtctcactga gctaaatcca cgggtgcagc agagctgtgt tctttcctag agcttctagg 480
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<210> 10074

<211> 574

<212> DNA

<213> Homo sapiens

<400> 10074

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 gccctgggag cctaaagggc agtgaggaga aggcttagca agaggcctgg agcaggggaa 180
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 cagtcccagg gtccagccgt gactccccta agggccccct gccctccaag tccagctcct 420
 caaaagagga gcccgtggc gcctgactcg ctgtagctgt gctcgctgcg ggtgtcaccg 480
 tcatcccagc cacngctgna cgccccagt acagtgtggc aacttgaagt cttcccgggt 540
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<210> 10075

<211> 554

<212> DNA

<213> Homo sapiens

<400> 10075

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aatgcctttt cctgctaaca gaggcattctg aagttcagag ggagagtcgc attttaagta 180
aaagtcgtcc ttaatgggag ggctcctgtc agtgcattag gaactagcca aggagccttg 240
cttgccagag ctgtctgact cagaggagag gaagggacag atggcctgct gactggggct 300
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tggtagaata tagaagcctg cttagaggg accctaactg cctccttgag gagtaaggag 480
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ttccctggg ggtn 554

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<210> 10076

<211> 540

<212> DNA

<213> Homo sapiens

<400> 10076

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gtagctggga ctacagggat ccaccacat gcccgctaa tttttgtat ttttttagt 180
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tggctcttct tatgcacca gttggatggg caatttacct atacctggca gacaaaagg 360
aagataactt ggggcctcgc agctgtgcgc acccatgga aaccaccaca cagcattttt 420
ttttttttt ggagacagag tctcgttctg ttactcaggc tggagtgcaa tgggtgtgat 480
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<210> 10077

<211> 565

<212> DNA

<213> Homo sapiens

<400> 10077

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tcaatgttta atacatacat gtgacttttag tcataaaacc acatagtcca ggaaaaaagg 180
agcccttttag aaaaaaaaaa tcagttttaga atgactttca aattgaccat tccttttcaa 240
atacttaaat tcaaataaca gatacattca gaggcccaaa tgttggcata gaataaaatc 300
atgttcattt atttttttct gcatcttaga attagaaggc ataaaattaa atatgttgaa 360
tgtaataaat tcatccatac aagtgcaggt ctccagatat aatgcatttt atggcagatt 420
tattatttta aaaatgtgcc agtaaataca aaaaagaggg agtatgncca tttaactttt 480
aatggaagng atgtaggagg cttcagaaat caaatgngag cntgaaaatt ggccaacctt 540
aaaactttca aatctgggna aagtg 565

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<210> 10078

<211> 499

<212> DNA

<213> Homo sapiens

<400> 10078

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cttctcacct cagcctccca aagtgtggg attataggca tgagccactg cacctggctg 120
agatgaaagg tcttactcac ttttctggc tctttactcc tgggtgtggca ctatacaaag 180
ccatgacgtg gaaactgagt cacatactc ctagttgggc cactcaaat aactcagatt 240
gccatccacc catctttttg gaaacgtaag ttccactaa atgttctatg tgggcacaga 300

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ccagtacaga gggaaacagg ttataattag ggagagctgt tgctcttgga accttctgga 360
 ttttaatggc cccgagaaat caagtcaaaa caggcttcat gctgttgctg acttgccagc 420
 cattgctgac ctaaaaatag angaaggggc cataaaccaa tntacatang tggcctntaa 480
 cagctggaaa angcnaaan 499

<210> 10079

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10079

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 tattaaagta taccacatat gtatggactg ntagaagaaa ttcatttcat ttttaaaagc 420
 aatggattgg ttaataaggt taagttcttt aacactttct ttaaaattcc tggcaagggt 480
 aacttccatt ggcnttttta aatngaaaaa ccnaaccnaa ccaaacttaa accccaagcc 540
 acnccccaaa atggtaagtt t 561

<210> 10080

<211> 556

<212> DNA

<213> Homo sapiens

<400> 10080

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 gaccaacaac cacccttata cttgacataa aactgagcag gtttagggac aganggaant 420
 gtgaagtcca ccagctnttt cacactngc ttataagaac caaatctggc caatgtgacc 480
 tgacacactt acctgggcaa ggatcttatn aagangnttc cagaataact tcccgaact 540
 tntntgggac tggtaa 556

<210> 10081

<211> 421

<212> DNA

<213> Homo sapiens

<400> 10081

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 taggaccaca ggcgtgcaac accacacca gctaccact cattttttgg ttgaatgaac 180
 agcttaaatt cttgttctga cccaagagcc ttgcaactgc ctcttcctcc tgcttgctta 240
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 ggggcctttc ctgactacca cttaaaattg cttgcttggg tacaatggct cagcgctgta 360
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 n 421

<210> 10082

<211> 525

<212> DNA

<213> Homo sapiens

<400> 10082

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ggcacctgtg tgccagtgtg tccgtgctgg gggacgcctg tccaggtggt gagtggaacg 180
gtgtgtgtgt gtgtctgtgt gcgcgtgtta acaagaaaaa cgaaccagaa aaggaagtgc 240
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tatggcatca aaagggagta aaaaatgatt ggatcaccca gattataaat aagggtatgt 360
gnttctcaaa aatccttatt aaaacattaa atatcancctc ttttgggggg agaaatacat 420
tcatttcagg gagacctcgg aagaatggnc catncttttg ntntacccc aaccagtggg 480
ggaaggggaa nccccaaaag ggccaangg ggtccctcca gttga 525
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<210> 10083

<211> 552

<212> DNA

<213> Homo sapiens

<400> 10083

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gacacaggta aattgagggg agggtttctt ttttcttttt gtttttttga gccaaagtc 180
gtcctgaaa aaaaatgctt actgaggaaa ataaacacct cgagctcaag cagctctcag 240
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cttcatcacc ttgcaaattc aagaccatct ttggaaaaga cagttaggac tgacttgcaa 480
tggttttggg aatcttacct acccccatgg ntggttttct anggcctngg gncaanggct 540
cctttaaaaa gg 552
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<210> 10084

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10084

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gttattatag gcatttatta ctaactatag tccttcttgg aaggaacacc caaaccaata   60
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tattctcaca gaagagctga acagacattc accaggatac gactgttgga ccagctgctg  180
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gtgtgattgt actgattttc atgagacaca agttacttct ttacatccat attcccaaag  360
cagggttaca tggtaggaaa gaaaggaaat tggagggtact aagctcattg ggncctcctct  420
agcttttacc agcatctaata gcttcactgn tttttttcca ttggagactt taatggcact  480
tggataaata catggagggtg gttttttcct caaaatggan taccccaatt aagactggga  540
agggcccaaa aaa                                     553
    
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<210> 10085

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10085

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tggtaaatct tttgaacttg cagtttagcc aatcctgaac tgtaaatgta agaacaacag  180
atgtggttta ttactgngca taccgcccct tgttcagcca gaagatattc cagggcacaa  240
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ctgcctgtac tagttgccag tgtttcaagg gtttgaaagt ttctcaaagc tggctgacag  360
    
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tatgcaaaag ccattccaag gggctatttc aacttctggc caaaatagnc ctattggctt 420
 ttagaattta ccccatgn gn gaaattatga actggntatt ctactgggac cttaaagtnc 480
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<210> 10086

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10086

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 tcctctgaag caagtggnet taaaaccacc ttntggcctt cccagctact tgggcatgct 480
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<210> 10087

<211> 551

<212> DNA

<213> Homo sapiens

<400> 10087

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 gaatggtttc ctggaagctt tggattataa cctggcaaaa ggtgaaatat attatcaatg 480
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 aaggttaaat t 551

<210> 10088

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10088

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 attggtggtg ggggatgggg attaatacag acagctcggg tagggtccac tcctggttcc 180
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<210> 10089

<211> 490

<212> DNA

<213> Homo sapiens

<400> 10089

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tacaggcatg caaccacacc tggctaattt ttgtatTTTT gtagagatgg ggttttGCCA  180
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aatgtgccaa gagtgaacac tgtggactct ggttgatggt gatggatcaa tgcagtttca  420
acaactgtga cacatncacc cctntggagc gagangtctg cantggggan gctatatggg  480
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<210> 10090

<211> 470

<212> DNA

<213> Homo sapiens

<400> 10090

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aaggctctgt gctttcatag gaactggaga gcaattgtca acaagggaaa ctgaaagaat  180
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acaccatcat cctgctttac ctctacaacc atcccacgn cctattatat ggatgagggt  360
aaagaaacac gtncaangcg ggtcattccc cttcagtgt taccacctan ttgagggatc  420
caaacanggc cacctgccaa anctaaggac caggaccagg ccancang                                     470

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